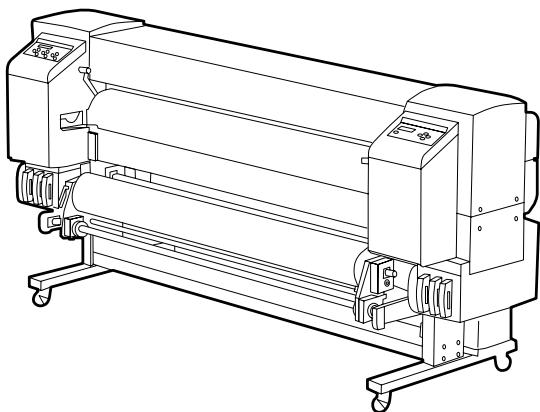




Solvent Ink
Color Inkjet Printer

IP-6600

Océ CS 6060



Read this User's Guide to use the printer safely and properly. Keep this manual in a place where you can quickly access it at any time.

Seiko I Infotech Inc.

IP-6600 Solvent Ink Color Inkjet Printer User's Guide
Documents Number U00086051201

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This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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Januar 1996:- EG-Direktive 73/23/EEC ergänzt durch EG-Direktive 93/68/EEC, Angleichung der Gesetze der einzelnen Mitgliedsstaaten bezüglich Geräten mit niedriger Betriebsspannung.

Januar 1996:- EG-Direktive 89/336/EEC, Angleichung der Gesetze der einzelnen Mitgliedsstaaten bezüglich elektromagnetischer Kompatibilität.

Den vollständigen Text dieser Erklärung einschließlich der Definition der entsprechenden Direktiven sowie der jeweiligen Standards erhalten Sie von Ihrem Seiko Colorgrafx Systems Kundendienst oder Ihrem Seiko Engineering Systems Kundendienst.

Introduction

Thank you very much for purchasing the IP-6600 Color Inkjet Printer (simply called the printer below).

This printer is a color inkjet printer that adopts solvent ink, supports 64 inch media width, and builts-in SCSI interface.

This manual, **the IP-6600 User's Guide**, describes the features of the printer, names of components, information to be known before use, and basic operations, such as how to turn the power on and off and set media and ink.

The following items should be read before reading Section 1.

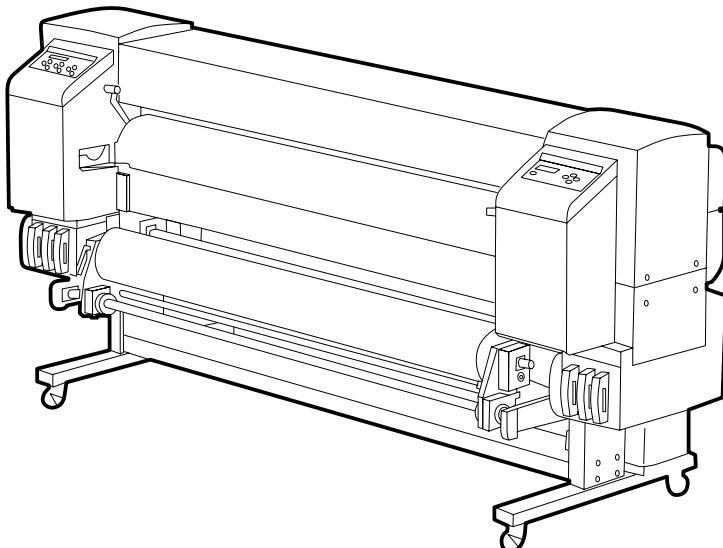
- Deliverables
- Safety precautions
- Handling precautions
- Manual legend (notation rules)

Read these items to use the printer safely and properly. Keep this manual in a place where you can quickly access it at any time.

Deliverables

The printer components, including options, are installed on the main unit on delivery. Make sure that the following items are present. If any parts are missing or damaged, contact the shop where you purchased the product or the nearest service dealer.

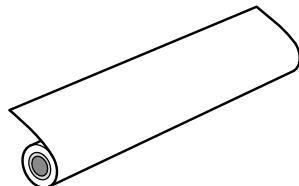
Basic components



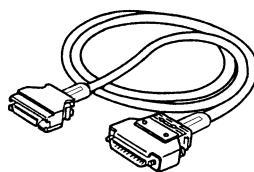
Printer main unit <1>

- Built-in SCSI interface.
- Including a winding unit.

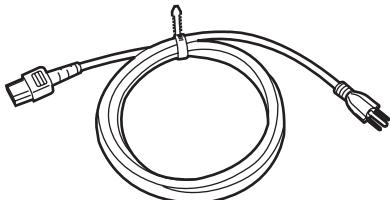
Accessories



Roll paper(for installations)
<1>



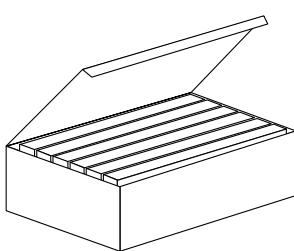
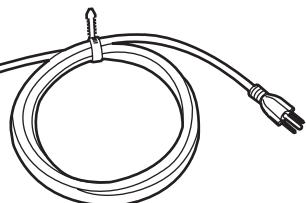
SCSI cable
<1>



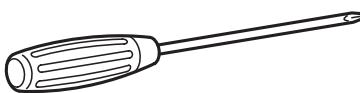
Power cord

<2>

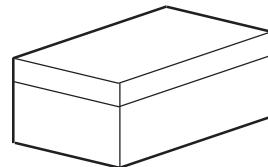
- Power cord for printer
- Power cord for heater



Ink kit 6 colors IP6-100
(Y, M, C, Bk, Lc, Lm)
<1>



+ screw driver
(for head up/down adjustment)



Maintenance kit IP6-108

<1 set>

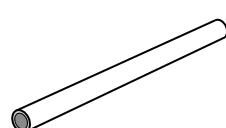
- Cap cleaning liquid: 100 ml
- Wiper cleaning liquid: 100 ml
- Cleaning swab: 50 pieces
- Syringe: 10 pieces



User's Guide
<1 copy>



Waste ink bottle IP6-109
<1>



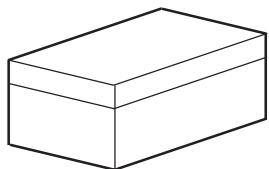
Paper tube 64"
<1>

*: Ink capacity of each ink cartridge for ink kit 6 colors IP6-100 is 500 ml.
Approximately 100 ml ink for each color is consumed at initial ink charge. Therefore, this 100 ml ink for each color cannot be used for print.

Options

- Dryer 64 (IP-260) : 1
- Dryer 64 for North America (IP-263) : 1
- Roll Cover 64 (IP-261) : 1
- Exhaust Attachment (IP-262) : 1
- PS RIP (Photo Print 4 Dx) (IP-540) : 1
- PS RIP (Photo Print 4 Server) (IP-541) : 1

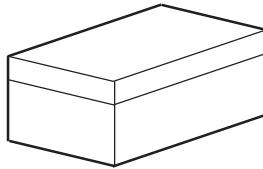
Consumables



Maintenance Kit IP6-108

<1 set>

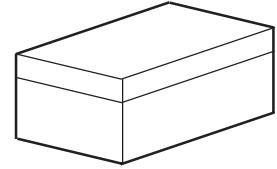
- Cap cleaning liquid: 100 ml
- Wiper cleaning liquid: 100 ml
- Cleaning swab: 50 pieces
- Syringe: 10 pieces



Cleaning Kit IP6-117

<1 set>

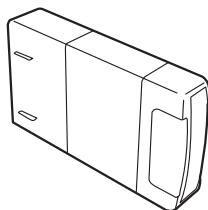
- Cleaning liquid cartridge: 6
- Dummy cartridge: 6



Storage Kit IP6-137

<1 set>

- Maintenance liquid cartridge: 6
- Dummy cartridge: 6



Ink cartridges IP6-XXX

(Y, M, C, Bk, Lc, Lm)

See page 1-8 for the item number.



Waste ink bottle IP6-109

<1>

* : Options and consumables can be ordered separately.

Safety Precautions

The following symbols are used in this manual to ensure the proper use of the printer and to prevent the printer from being damaged. Follow the instructions marked with these symbols.

 WARNING	Serious personal injury or death: Failure to follow the guidelines marked with this symbol could result in serious personal injury or death.
 CAUTION	Minor personal injury or product and/or peripheral damage: Failure to follow the guidelines marked with this symbol could result in minor personal injury or product and/or peripheral damage.

Example of symbols:



This symbol (\triangle) denotes items that require special care while executing a certain procedure or operation.



This symbol (\otimes) denotes items that are forbidden.



This symbol (\bullet) denotes items you should follow to prevent accidents or injury.



WARNING



Use the power supply voltage specified on the nameplate. DO NOT plug several devices into one electrical outlet as this might result in fire or electric shock.



Make sure the printer is well grounded. If not, a short circuit may cause fire or electrical shock.



DO NOT disassemble or remodel the printer. DO NOT repair the printer by yourself. Doing so may cause fire, electric shock or other accidents.



DO NOT damage, break, process, or heat the power cable. If it is damaged, replace it with a new one. Using a damaged power cable may cause fire or electric shock.



NEVER use the printer in a place of extreme humidity or any place where it can possibly be splashed by any liquids. If any liquids get into the printer, it could lead to fire, electric shock, or other serious accidents.



DO NOT remove the covers attached to the printer because they contain high-voltage and extremely hot parts. Careless removal might result in an electric shock or burn.



DO NOT allow metal or liquids to touch the internal parts of the printer. Doing so may cause fire, electric shock, or other accidents.



DO NOT disconnect or connect the power cable with wet hands. Doing so may lead to electric shock.



Turn the printer off and unplug the power cable immediately after it thundered.



WARNING



Power OFF the printer and unplug the power cable from the power outlet in any of the following cases:

- When putting your hands inside the printer.
- Smoke, strange noise or smells generate from the printer.
- A piece of metal or any liquid touches the internal parts or slot of the printer.
- An error requiring service by a service center occurs.



DO NOT put your hand into the paper delivery slot as it may lead to injury by the cutting device.



Do not leave the printer stained with ink.
The coating of the printer may be damaged.



The ink used for the device contains organic solvent (Ethylenglycolmonobutyleteracetat).
Therefore, observe the local rules strictly related to organic solvent stuff.



The ink used for the device contains organic solvent (Ethylenglycolmonobutyleteracetat), Since the ink is flammable, never use fire when using the device.



Do not swallow ink or avoid its splashes on the eye. If it gets into the eye, wash it off with a clean running water and consult a doctor as required. If it is swallowed, do not try to vomit it forcefully, but consult a doctor.

Keep ink cartridges out of reach of children.

CAUTION



Handle the paper rolls with care because they are very heavy. If you drop them, it could lead to personal injury.



Hold the electric cable by the plug when connecting or disconnecting it. Failing to do so may cause the cable to fray or break which could lead to electric shock and/or fire.



DO NOT get ink on your skin or clothes. Wash off any ink immediately with soapy water.



DO NOT put any paper rolls on an unstable table or a tilted surface as they could fall leading to an injury.



The heater will be hot.

Pay attention not to touch and not to be burned.

In order to ensure the safe operation of the printer heed all of the cautions and warnings contained throughout this manual.

Handling Precautions

Power Supply

1. Install the printer near an easily accessible electrical outlet.
2. Do not provide power to the printer through the same power line as for noise-generating devices, such as a motor.
3. Use the power supply matched with the specification of the printer.
4. Connect the power cable to an electrical outlet. Do not plug several devices into one electrical outlet.

Printer

1. Do not place anything on top of the printer. Do not rest your elbows on the printer.
2. Open and close the top cover gently from the front of the printer with both hands.
3. Before connecting or disconnecting the interface connector, turn the printer off.
4. Do not clean the surface of the cover with benzene or paint thinner. The coating may come off or deteriorate.
Wipe the cover clean with a soft cloth. If the cover is very dirty, use a cloth moistened with a neutral detergent.
5. Do not touch the ink-jet head surface.

Regular Inspection and Maintenance

The following regular inspection and maintenance must be performed in terms of characteristics of solvent ink.

1. Clean the capping unit every day.
2. Check moisture of wipper sponge every day.
3. Perform the head cleaning every one month.
4. Perform the service cleaning when leaving the printer for long time (2 weeks or more at power off state.)
5. Perform the head wash and the ink charge before printing when leaving the printer for long time.

See pages 2-48 and 2-59 for regular inspection and maintenance.

Consumables

1. Always use the recommended consumables (media, ink, etc.).
Failure to follow this instruction may cause poor print quality or a breakdown.
2. Do not use ink past the date of expiration as this may cause a breakdown.
3. Put a used ink cartridge into a plastic bag and dispose of it as an industrial waste. Observe any regulations for disposal of waste ink bottles.
4. Do not get ink on your skin or clothes. Wash off any ink immediately with soapy water.
5. Check waste ink bottle regularly so as not to leak the waste ink.
6. When the waste ink bottle is installed or removed, spread the stain preventing sheet so as not to stain the floor with spilt ink.
7. Store ink in a dark and cool place.
NEVER store ink in a high temperature or direct sunshining place.
Doing so, ink may cause characteristic changes.
8. Do not attempt to disassemble ink cartridges.
9. Media for solvent ink on the market can be used for this printer.

Manual Legend (Notational rules)

This manual uses the notational rules for marks, keys, LCDs, and LEDs:

Marks



WARNING

Boxes marked with a "WARNING" describe points of caution for avoiding serious personal injury.



CAUTION

Boxes marked with a "CAUTION" describe points of caution for avoiding injury to yourself or damage to the printer.

NOTE

Boxes marked with a note describe precautions while handling the printer.



HINT: Hint mark

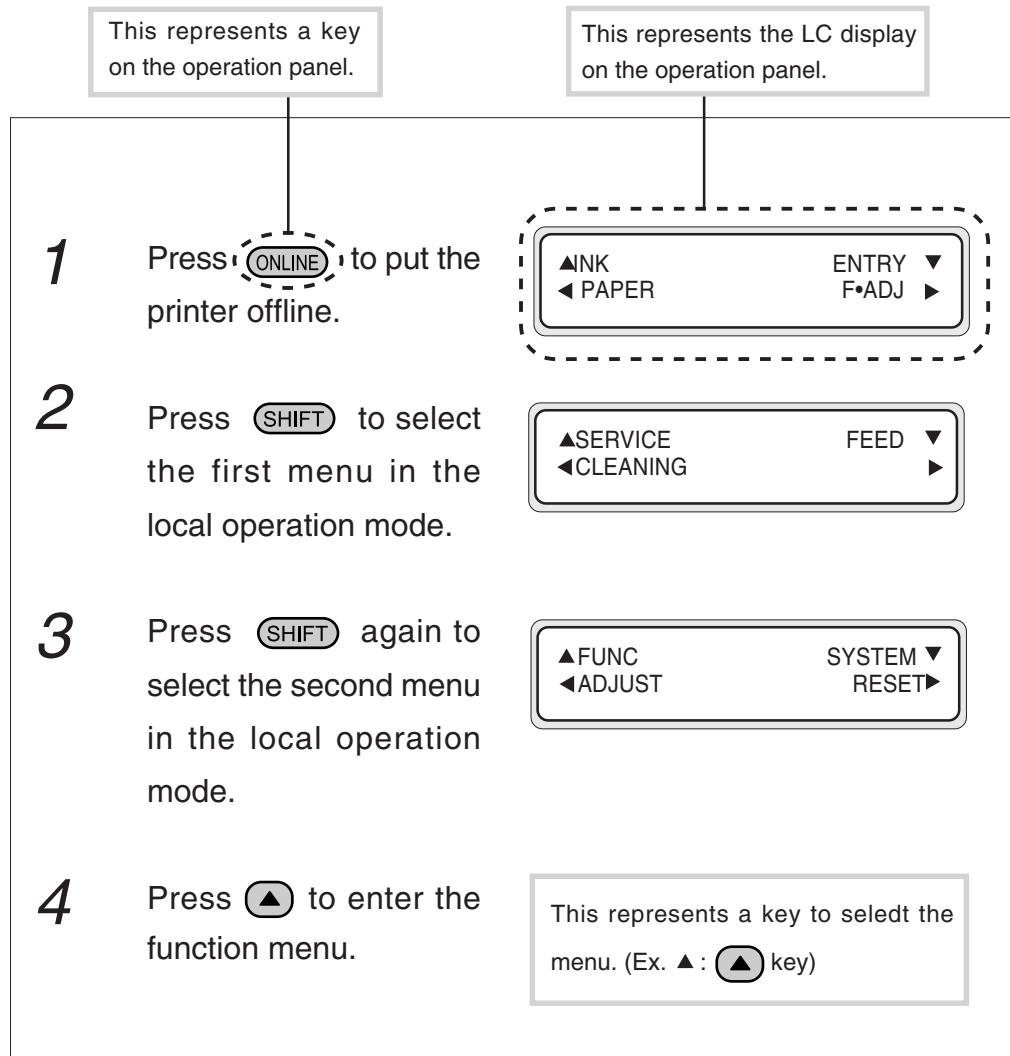
HINT The hint symbol describes operations that make using or handling the printer easier.

⇒ Reference mark

This mark is followed by a reference section or page number.

Notation of Keys/LCDs/LEDs

Example 1: Keys and messages shown on the LCDs in the text



Example 2: LED's states in the text

LED's states of "On", "flashing", and "Off" are characterized by the following symbols:

- On
- Flashing
- Off

Example 3: LCD's state transitions and key operations in the text

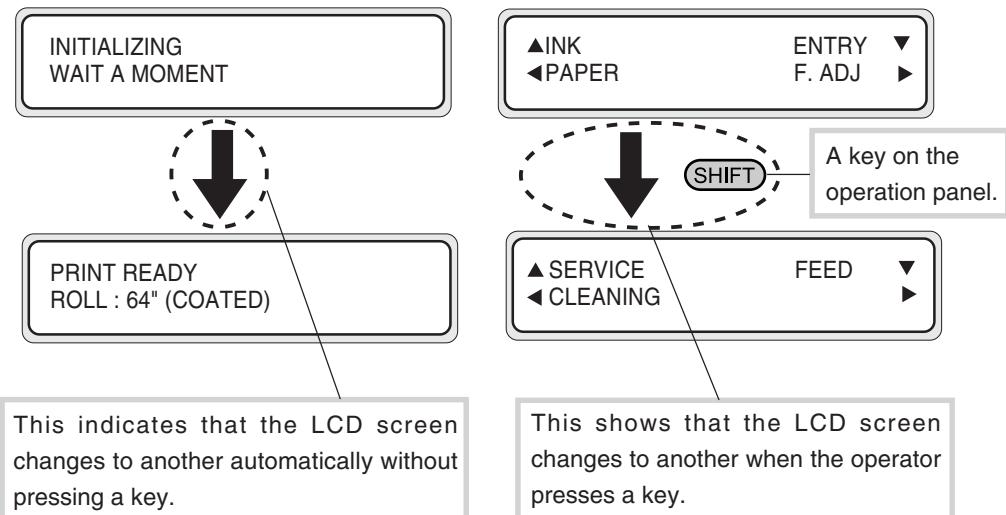


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Section 1 Getting Started

(Basic knowledge)

This section provides necessary information to operate the printer. Familiarize yourself with the basics of the printer before reading Section 2 and later.

Contents of this section

Operating Conditions

 Installation Space

 Environmental Conditions

Consumables

 Media/Paper

 Ink

 Waste Ink Bottle

 Maintenance Kit

 Storage Kit

 Cleaning Kit

 Maintenance Liquid Cartridge

External Views, Names of Parts, and Functions

 Front

 Rear

 Heater

 Operation Panel

 Heater Control Panel

 Drying Device 64

 Roll Cover 64

 Exhaust Attachment

 PS RIP (PhotoPrint 4 DX)

 PS RIP (PhotoPrint 4 Server)

LCD Messages and Printer State

 Messages on the LCD

Operating Conditions

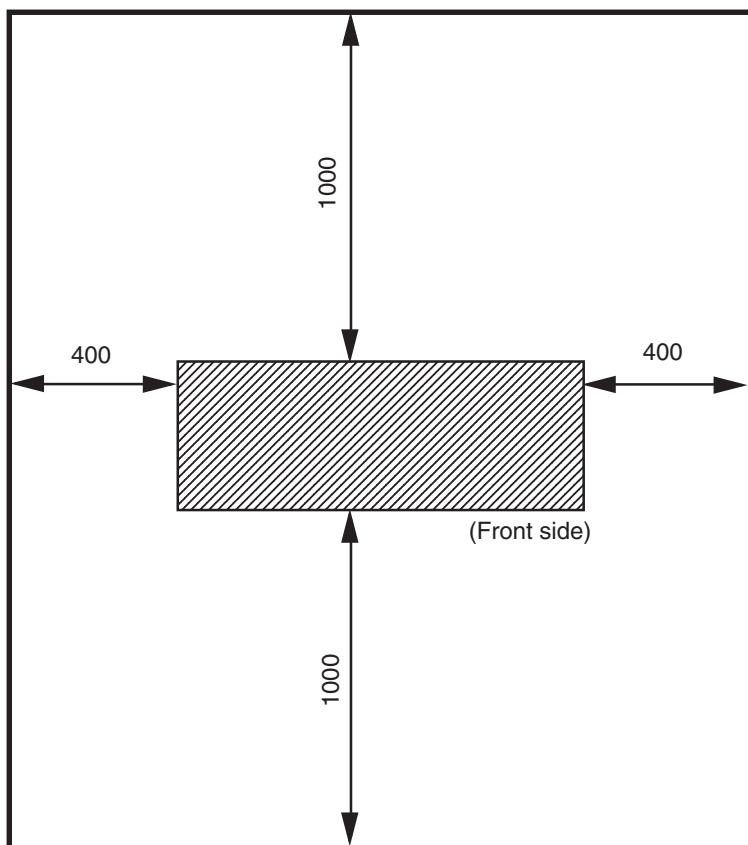
This section describes the operating conditions for the printer.

Installation Space

There must be a sufficient space around the printer for the replacement of frequently used parts, for the output of drawings, and for ventilation. In addition, the maintenance space, shown below, is required to repair the printer or replace components.

The installation/maintenance space is shown in the following figure.

■ Installation and maintenance space



Height direction: 1700

(Unit : mm)

Environmental Conditions

■ Operating temperature and humidity levels

The printer should be used within the temperature and humidity levels shown below.

Temperature: 15 °C to 30 °C

Humidity: 30% to 70%



HINT

- To obtain better print quality, use the printer within temperatures of 20 to 25 °C.
- When operating temperature is lower than 20 °C, the print speed goes down two-third of normal print speed to keep a good print quality.
- When the head temperature goes high, the print time is delayed.

NOTE

- When the printer is used out of range of the operating temperature and humidity, the print may be stopped and the print quality may be degraded.

■ Places where the printer must not be installed

Do not install the printer in the following places:

- Places exposed to direct sunlight
- Places subject to vibration
- Places with excessive dust
- Places subject to extreme changes in temperature or humidity
- Places near an air conditioner or a heater
- Places where the printer may get wet
- Places subject to direct air circulation from vents
- Places near a diazo copier that may generate ammonia gas
- Places with poor ventilation
- Unstable places

Consumables

Media/Paper

■ Available media types

We prepared the following types of media:

- Glossy vinyle chrolide
- Matted vinyle chrolide
- Banner

Contact our service center for details.

■ Precautions for storing media

- Avoid direct sunlight and water regardless of before and after opening the package. Put paper in envelope to prevent dust and store media in a dry, cool and dark place.
- Avoid rapid change of temperature and humidity and store media with no condensing.
- Do not store media in standing condition to prevent disorder of media and damage of roll edge.
- Do not pile up paper rolls.

■ Precautions for disposing of paper

- Dispose of media in rule matched to the actual situation.
If there is a limitation for disposal regulations, follow the regulations.

■ Precautions for use

- Avoid a change of temperature and humidity after opening package.
Set media after leaving media in the operation environment for 3 hours or more. Use care for a change of humidity by turning ON/OFF the air conditioner.
- In terms of media characteristics, curl of paper in low humidity and wrinkle of media in high humidity may occur easily.
Use paper in normal temperature and humidity environment (around 23 °C and 50%RH).
- Do not use scratched, wrinkled, curled, or stained with dust media.
Especially, roll edge (both edges of roll) affects media feeding.
Also, do not drop or wet the media. If doing so, it may cause bad effect to print quality and causes a malfunction.
- Hold margins of the media so as not to touch the print surface.
Adhesion of sebaceous matter or sweat may cause bad effect to print quality.
- Amend mis-roll of the media before setting.

■ Precautions for handling prints.

- Do not touch the print surface before drying up the ink.
Hold margins of the media for handling.
Especially use care before 24 hours after printing.
- Rubbing print surface causes color fading or color transfer.
Do not pile print surface to prevent color transfer.
- Do not pile together with copy prints or laser prints to prevent sticking due to ink or toner.
- Do not rub, scratch, or hold the media to prevent pealing.
- Do not rub or leave the paper in wet condition to prevent blurring.

■ Other precautions

- Media causes color fading and a change in quality in getting old.
Check paper condition and use well-conditioned paper.
- Paper dust due to cutting may cause float of coating.
- When using vinyl (with glue), adhesive matter (with glue) may be stucked to the platen.

In this case, wipe up the adhesive matter referring to "Section 2, Inspection & Maintenance".

Sticking of adhesive matter may cause paper jamming.

Ink

■ Ink types

Use our recommended ink cartridges listed below.

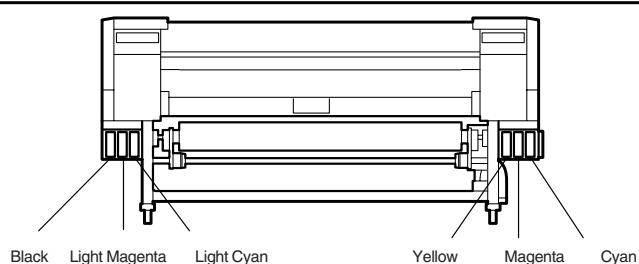
Item No.	Ink color	Ink capacity
IP6-101	Y (Yellow)	1000 ml
IP6-102	M (Magenta)	1000 ml
IP6-103	C (Cyan)	1000 ml
IP6-104	Bk (Black)	1000 ml
IP6-105	Lc (Light Cyan)	1000 ml
IP6-106	Lm (Light Magenta)	1000 ml

NOTE

- Failure to use the recommended ink cartridge may lead to a deterioration of the print quality or a printer malfunction.
- The valid period of the ink is 12 months after the manufacture date.
- Do not shake ink cartridges before use.
- All six color cartridges must be installed.

If any of the cartridges is removed, a new one must be installed.

Ink cartridges must be installed in all six slots. The positions of ink cartridges are specified by color. (See the figure below.)



**WARNING**

- Never bring the ink close to fire. Failure to follow this warning might result in fire.

**CAUTION**

- Do not swallow ink or avoid its splashes on the eye. If it gets into the eye, wash it off with a clean running water and consult a doctor as required. If it is swallowed, do not try to vomit it forcefully, but see a doctor.
- Do not attempt to disassemble ink cartridges.

■ Precautions for ink storage and processing**CAUTION**

- Securely put a used ink cartridge into a plastic bag and dispose of it as an industrial waste. Observe any regulations for disposal of ink cartridges.

NOTE

- Ink has an expiration date. When it expires, the printer quality may deteriorate or the printer may malfunction.
- Store ink cartridges in a dry, cool and dark place.
- Always use the recommended consumables (paper, ink, etc.). Failure to follow this instruction may cause poor print quality or a breakdown.

Waste Ink Bottle

Use our recommended waste ink bottle listed below.

Item No.	Remarks
IP6-109	1 piece (5,000 ml)



WARNING

- Never put the waste ink bottle near open flames. Failure to follow this warning might result in fire.



CAUTION

- Do not swallow ink or avoid its splashes on the eye. If it gets into the eye, wash it off with a clean running water and consult a doctor as required. If it is swallowed, do not try to vomit it forcefully, but see a doctor.

NOTE

- Install the waste ink bottle securely.
- A waste ink bottle must always be installed. If it is removed for replacement, a new one must be installed.

■ Precautions for handling the waste ink bottle

 CAUTION

- After use, securely fasten the attached cap and dispose of this product as industrial waste.

If you have any questions, please contact your nearest sales office.

NOTE

- When the waste ink bottle is installed or removed, hold it with both hands with its mouth facing up. If not, waste ink may spill from the bottle.

Maintenance Kit

Use our specified cleaning liquid.

Item No.	Remarks	Quantity
IP6-108	Cap cleaning liquid	100 ml
	Wiper cleaning liquid	100 ml
	Cleaning swab	50 pieces
	Syringe	10 pieces

 CAUTION

- Do not swallow ink or avoid its splashes on the eye. If it gets into the eye, wash it off with a clean running water and consult a doctor as required. If it is swallowed, do not try to vomit it forcefully, but see a doctor.

Storage Kit

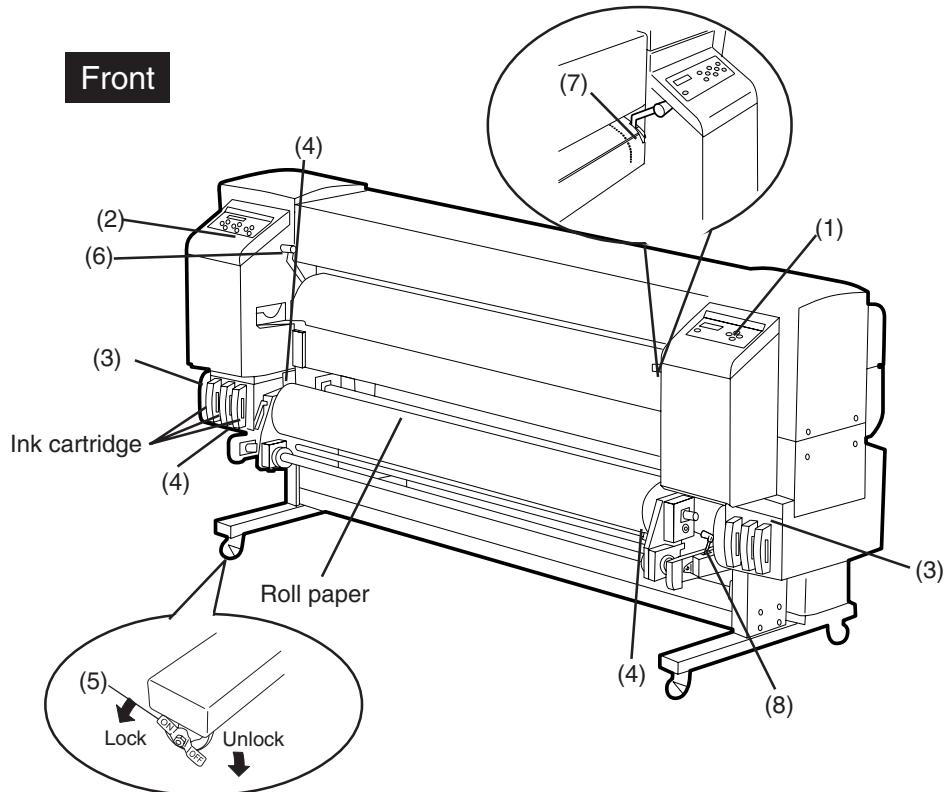
Item No.	Remarks	Quantity
IP6-137	Maintenance liquid cartridge	6
	Dummy cartridge	6

Cleaning Kit

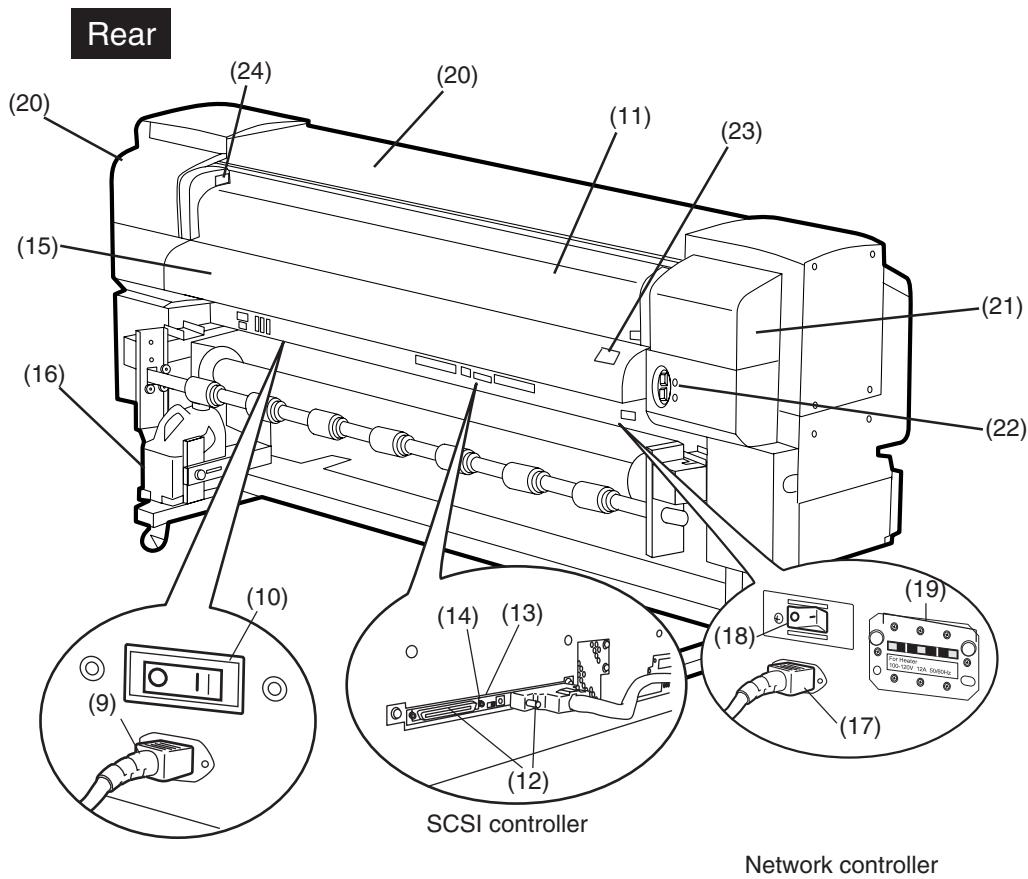
Item No.	Remarks	Quantity
IP6-117	Cleaning liquid cartridge	6
	Dummy cartridge	6

External Views, Part Names, and Functions

This section shows the external views of the printer, the names of parts of the printer and describes their functions.



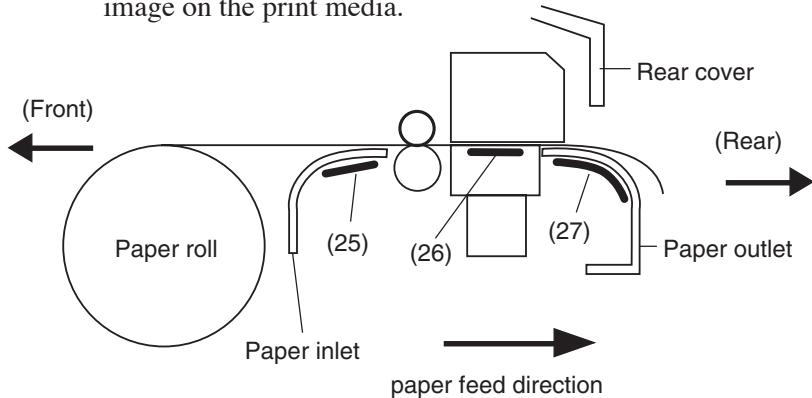
(1) Operation panel	The lamps and LCD, which indicate the printer status, and keys for setting functions are located on the operation panel.
(2) Heater control panel	The keys for setting heater temperature are located on the heater control panel.
(3) Ink holder	Holds the ink cartridge.
(4) Flange	Sets paper roll.
(5) Caster	Unlocks the caster to move the printer, and lock it to secure the printer.
(6) Paper pressure alternation lever	Alternates paper pressure depending on the paper thickness.
(7) Pressure roller up/down lever	Presses down the paper after inserting the paper into the paper supplying part and releases the pressing down of the paper.
(8) Paper-out release lever (ME lever)	Releases paper-out detection sensor.



(9) Power receptacle	Printer power supply
(10) Printer switch	
(11) Rear cover	SCSI controller
(12) SCSI connector	
(13) ID switch	
(14) Terminator switch	
(15) Paper outlet	Heater power supply
(16) Waste ink bottle	
(17) Power receptacle	
(18) Heater switch	
(19) 100 V/200 V alternation switch	
(20) Cap cover	
(21) Wiper cover	
(22) Print stop/restart, cancel keys	
(23) FAN guard positioning slide bar	
(24) Head up/down lever	

Heater

The printer built in three heaters for fixing and stabilizing print image on the print media.



- (25) Front heater (Front) Preheats the media.
- (26) Print heater (Rear) Infiltrates ink into the media and fixes ink.
- (27) Rear heater (Finish) Dries ink and stabilizes print image.

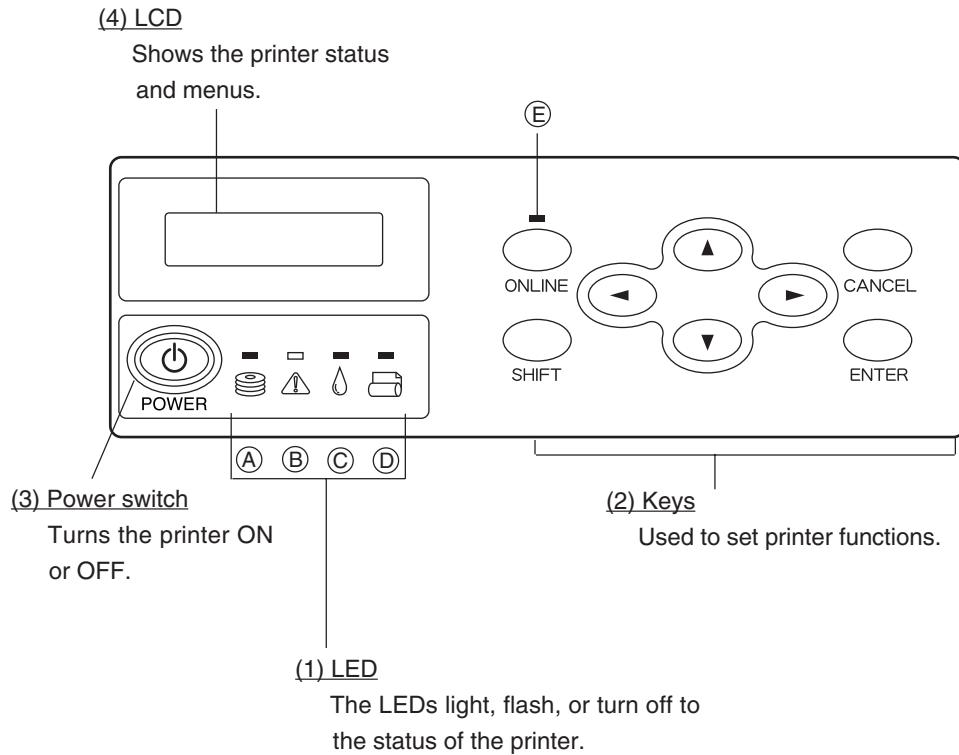
* Three heaters are controlled separately.

⚠ WARNING

- Heaters become hot.
- NEVER touch the heaters. If doing so, it could lead to burn.

Operation Panel

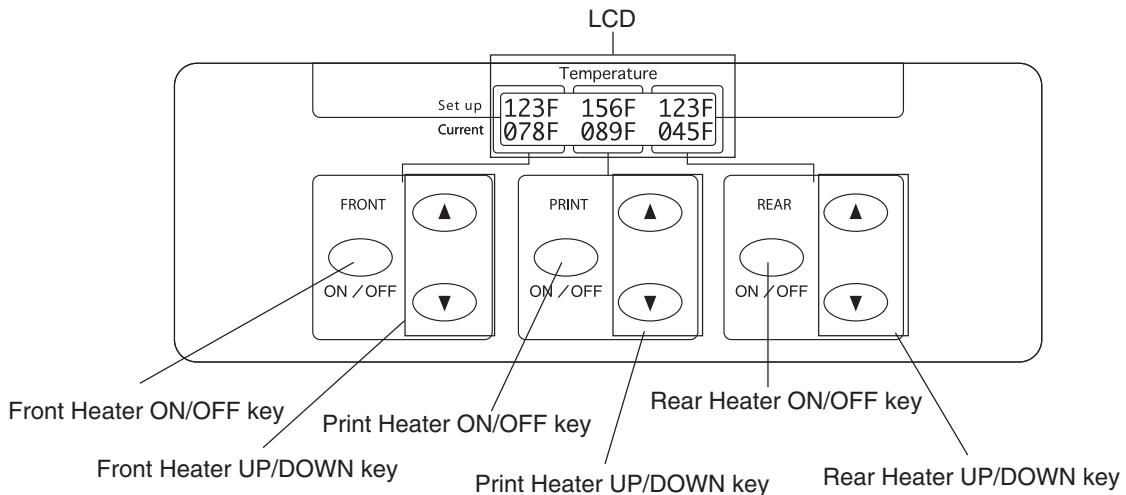
Keys, LEDs, and the LCD are laid out on the operation panel as follows. It has a buzzer to alert errors or invalid key operations.



■ Functions of LCD, LEDs and keys

Number	Name	Function
(1) LED	(A) Data LED (green)	Shows the data reception state. - Flashing : Data is being received from the computer - Off : No data is being received
	(B) Error LED (orange)	Indicates whether an error has occurred. - On : An error has occurred - Flashing : Warning state - Off : Normal (No error has occurred.)
	(C) Ink LED (green)	Shows whether there is the ink cartridge or indicates a warning. - On : All ink cartridges are present. - Flashing : Ink is running out. (One of color inks has run out.) - Off : No ink (One of color inks has run out.)
	(D) Paper LED (green)	Shows whether paper is set. - On : Paper is set. (Roll paper or cut sheet is set.) - Off : No paper (Neither roll paper nor cut sheet is set.)
	(E) Online LED (green)	Shows whether the printer is online or offline. - On : Online - Flashing : Online pause mode - Off : Offline
(2) Key	ONLINE key	Switches between online and offline states.
	SHIFT Key	Used as an auxiliary key for parameter input (switches the menu level display).
	CANCEL Key	Cancels an input parameter.
	ENTER Key	Selects a menu or enters a parameter.
	▲ Key	Selects a menu group or switch a menu (selection, number up/down).
	▼ Key	
	◀ Key	
	▶ Key	
(3) Power switch	Power Switch	Used to turn the printer ON or OFF.
(4) LCD	LCD	Shows printer messages or status with alphanumeric characters, katakana, or symbols (16 digits, two lines). Menus have a hierarchical structure. Access each menu with ▲, ▼, ▲, ▼ or (SHIFT) key.

Heater Control Panel



■ Functions of LCD, LEDs and keys

Number	Name	Function and description
LCD	FRONT	Indicates the setting temperature and the current temperature of the front heater. When the main switch of the heater is turned off, it is urged to turn on the main switch. When the front heater is turned off, "OFF" is indicated.
	PRINT	Indicates the setting temperature and the current temperature of the print heater. When the main switch of the heater is turned off it is urged to turn on the main switch. When the print heater is turned off, "OFF" is indicated.
	REAR	Indicates the setting temperature and the current temperature of the rear heater. When the main switch of the heater is turned off, it is urged to turn on the main switch. When the rear heater is turned off, "OFF" is indicated.
key	FRONT ON/OFF key	Turns on/off the front heater.
	FRONT UP key	Increases the setting value for the front heater.
	FRONT DOWN key	Decreases the setting value for the front heater.
	PRINT ON/OFF key	Turns on/off the print heater.
	PRINT UP key	Increases the setting value for the print heater.
	PRINT DOWN key	Decreases the setting value for the print heater.
	REAR ON/OFF key	Turns on/off the rear heater.
	REAR UP key	Increases the setting value for the rear heater.
	REAR DOWN key	Decreases the setting value for the rear heater.

Dryer 64 (Option)

The dryer 64 dries the output media.

Roll Cover 64 (Option)

Protects paper roll from dust.

Exhaust Attachment (Option)

Mounts an exhaust gas pipe to the printer or the drying device.

PS RIP (PhotoPrint 4 DX) (Option)

RIP software for the IP-6600.

PS RIP (PhotoPrint 4 Server) (Option)

RIP software for the IP-6600.

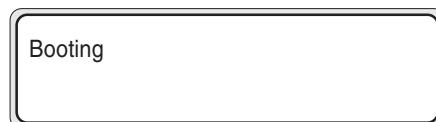
LCD Messages and Printer State

This section explains the messages shown on the LCD and outlines menu operations.

Messages on the LCD

(1) Initialization display

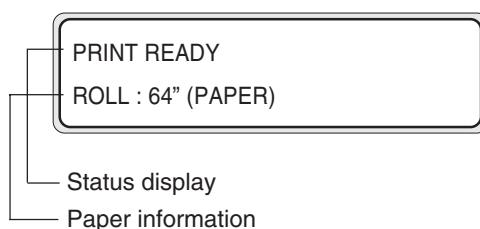
The printer is being initialized.



*: When the system starts normally, both controllers go online and enter idle mode automatically.

(2) Online state (idle mode) display

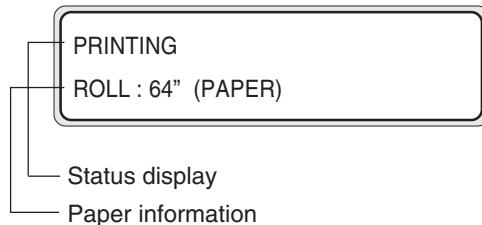
The printer can receive data from the computer.



*: When the **ENTER** key is pressed in the menu mode, "CLEANING" menu appears.

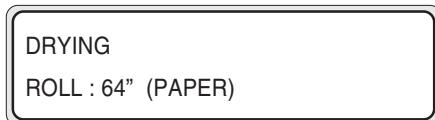
(3) Online state (print mode) display

The printer is printing.



(4) Online state (drying mode) display

The printer is drying the media.

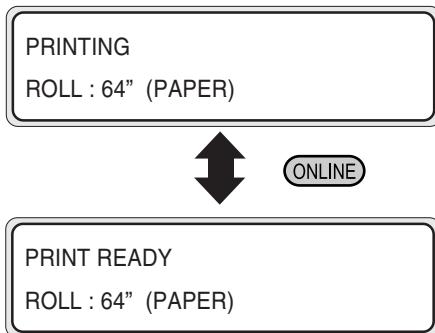


- * Only when the print drying time is preset, the drying state will be displayed after print. (See Section 3, Operation Panel Menu Operations.)

(5) Online state (print pause mode) display

The printer is paused.

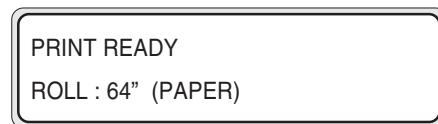
- Print stop and resume



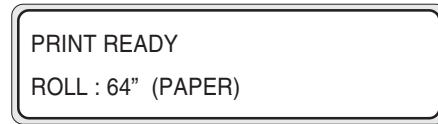
The ONLINE LED flashes.

Press the **ENTER** key in the print pause mode to start the head cleaning.

- Print cancel (end)

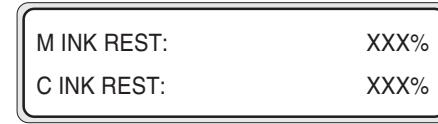
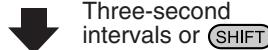
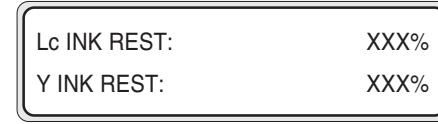
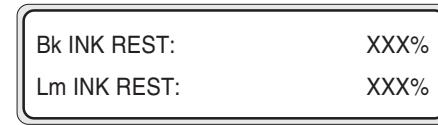
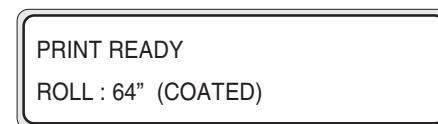


The ONLINE LED flashes.



(6) Online state (print information mode) display

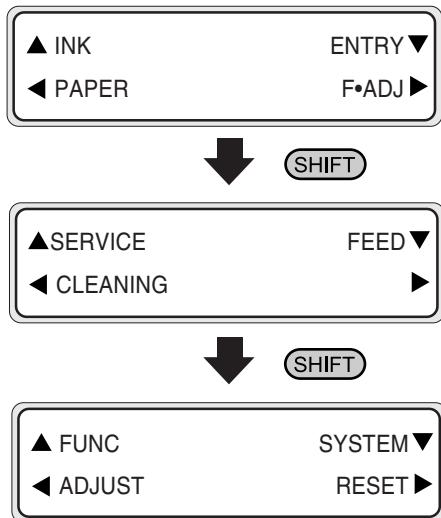
Paper total count and ink removing amount are displayed.



Then, the printer returns to online idle mode.

(7) Offline (menu mode) display

Menus can be operated in offline mode.



*: ▲, ▼, ▲, and ▶ are access keys to menus.

*: When the **ENTER** key is pressed in the menu mode, "CLEANING" menu appears.

(8) Shutdown state display

The printer is shutting down.



Section 2 Basic Operations

Contents of this section

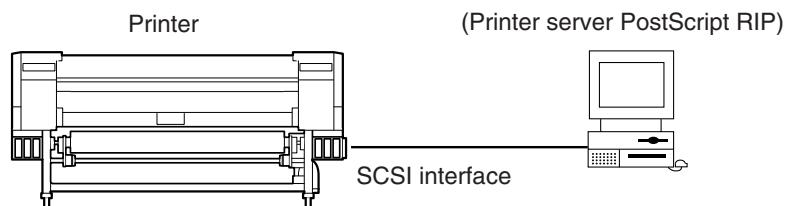
- Connecting with Computer
 - System configuration (connection example)
 - Connection procedure
- Turning the Power On/Off
 - Turning the Power On
 - Turning the Power Off
- Replacing the Paper Roll
 - Installing Paper Roll in the Printer
 - Removing the Paper Roll from the Printer
 - Replacing Paper Roll with Another
 - Replacing Empty Paper Roll
 - Replacing Jammed Paper Roll
 - Installing/Removing Cut Sheet in/from the Printer
- Replacing Ink Cartridges
 - Ink Cartridge Replacement Procedure
 - Replacing Empty Ink Cartridge
 - If an Ink Cartridge Is Not Installed
 - If an Ink Cartridge Is Not Detected
- Replacing the Waste Ink Bottle
 - Waste Ink Bottle Replacement Procedure
 - If the Waste Ink Bottle Is Full
 - If the Waste Ink Bottle Is Not Installed
- Head Cleaning "CLEANING"
- Paper Feed "FEED"
 - Using the Origin Point Setting Function
 - Installing Paper on Winder
 - Changing Heater Control Setting Temperature
 - Using the Media Pressure Alternation Lever
 - Using the Head Up/Down Lever
 - Using the Media Edge Guard
 - Using the FAN Guard Positioning Bar
 - Using the Print Pause/Restart and Cancel Keys
- Inspection & Maintenance

Connecting with Computer

This section only shows system configurations and cable connection procedure.

System configuration (connection example)

The following connection is possible.



Connection procedure

Connect a cable as follows:

- 1 Turn the printer and the computer OFF.

NOTE

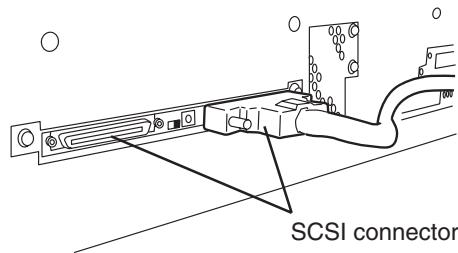
- When the printer is connected with the computer, turn the printer ON, and then turn the computer ON. To turn the system OFF, turn the computer OFF, and then turn the printer OFF.

2 Connect a SCSI cable to a SCSI connector on the rear of the printer.

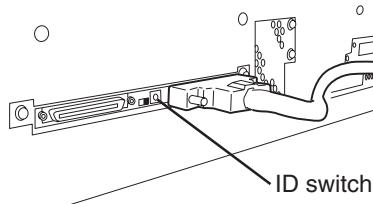
(It can be connected to any one of two SCSI connectors.)

NOTE

- Use a dedicated SCSI cable (68-68-pin, 6 m).
If using a cable except the specified one, the printer can not satisfy FCC and CE regulations.



3 Set the ID switch on the rear of the printer.

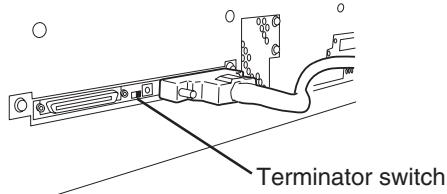


Set the ID number with a small normal driver, etc. (Initial ID value: 4)

NOTE

- The ID number must not be unique in the SCSI chain. (Initial setting: 4)

4 Set the terminator on the rear of the printer to ON or OFF.



The printer has the SCSI terminator ON/OFF function. If the external terminator is not used and the printer is a terminating device in the SCSI chain (only one SCSI connector is connected), set the terminator switch to ON. If the printer is not a terminating device, set it to OFF.

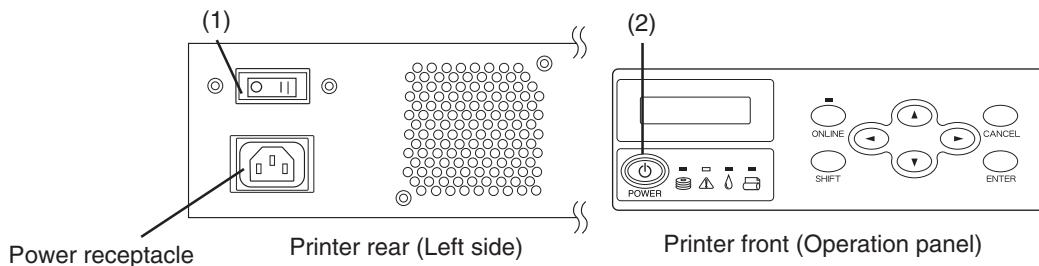
Turning the Power On/Off

The power of the printer and the power of the heater are separated.

<Printer>

The printer has two power switches as follows.

- (1) Printer switch
- (2) Power ON/OFF switch



The printer is turned ON by turning the printer switch ON.

Afterward, turn the printer ON/OFF by the ON/OFF switch on the operation panel.

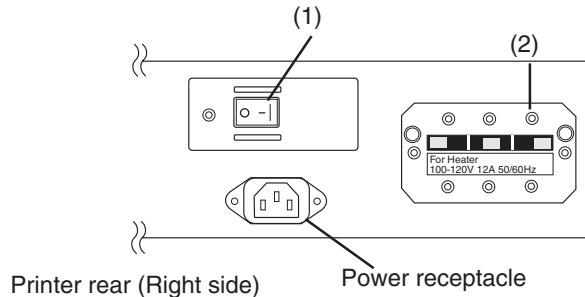
NOTE

- When the printer is connected with the computer, turn the printer ON, and then turn the computer ON. To turn the system OFF, turn the computer OFF, and then turn the printer OFF.
- Turn the computer ON after the printer becomes to the online state.

<Heater>

The heater has two power switches as follows.

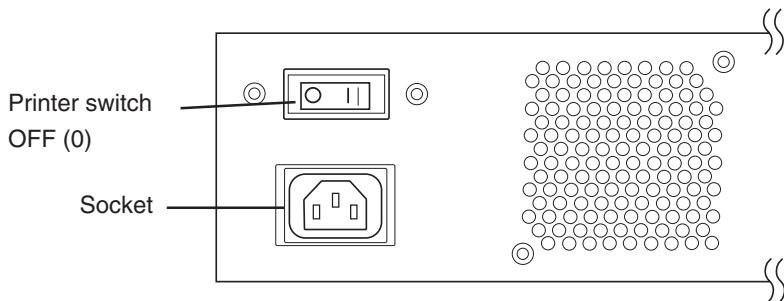
- (1) Heater switch
- (2) 100/200 V alternation switch



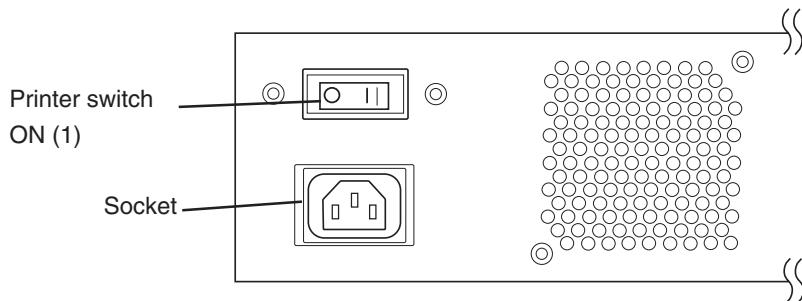
Turning the Power On

<Printer>

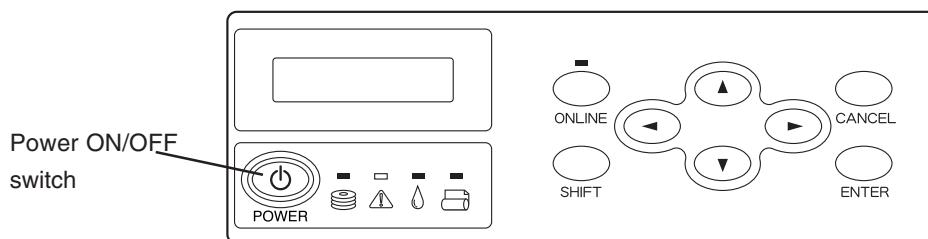
- 1 Turn OFF (0) the printer switch on the left rear of the printer, and plug one end of the supplied power cable into the socket of the printer. Insert the other power plug of the cable into an electrical outlet.



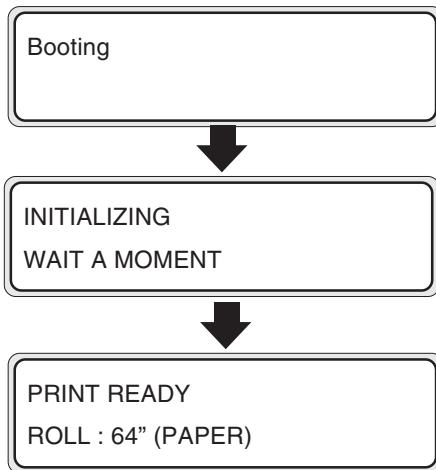
- 2 Turn ON (1) the printer switch on the left rear of the printer.



- 3 Turn ON the power ON/OFF switch on the operation panel.



When the switch is turned ON, a power-on self-diagnostic test is performed and the following message appears on the LCD on the operation panel.



If a 64" paper roll is used

The heater control panel is displayed by turning the printer power ON. However, turn the heater power ON to use the heater.

When the heater power is turned OFF, the following message is displayed on the heater control panel.

TURN ON
THE HEATER

NOTE

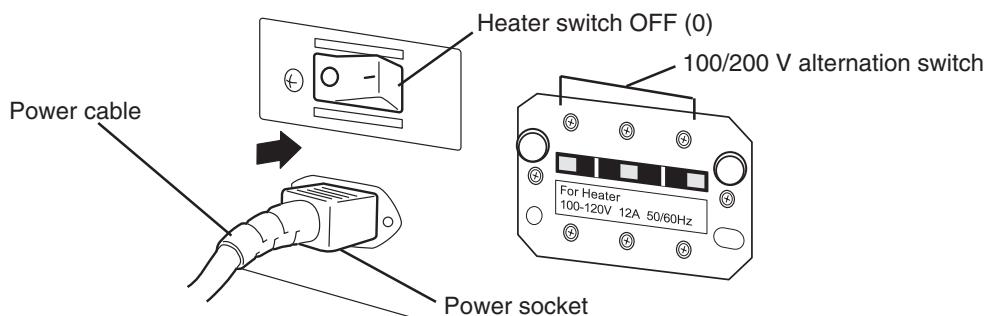
- Turn OFF the printer while "PRINT READY" is displayed on the LCD panel except emergency.
- Do not turn OFF the printer while "INITIALIZING" or "CLEANING" is displayed on the LCD panel to avoid drop of the ink and damage of the head.



- If the fan does not run or the operation panel lamp does not light when the printer switch and power ON/OFF switch on the operational panel are turned ON, the power supply may be faulty.
- If an error is detected during the self-diagnostic test at powering on, an error message appears on the LCD. See the Section 5, Troubleshooting and take an appropriate measure.

<Heater>

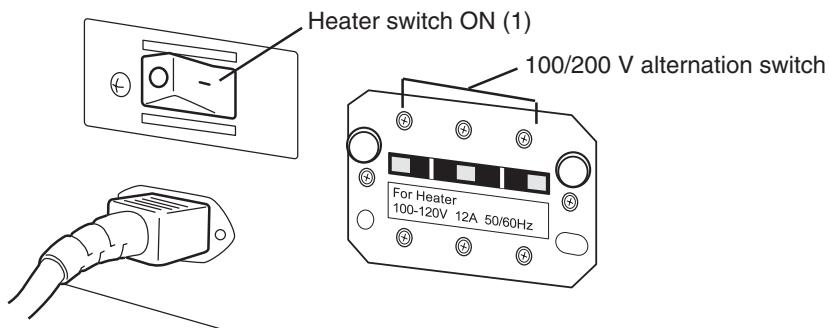
- 1 Turn OFF the heater switch on the right rear of the printer, and plug one end of the supplied power cable into the socket of the printer. Insert the other power plug of the cable into an electrical outlet.



NOTE

- Do not use the other power cable than specified in this printer.
- Verify that the supplied power cable meets the local AC power supply specifications.
- Verify that the 100 / 200 V alternation switch settings meets the local AC power supply specifications.

- 2 Turn ON the heater switch on the right rear of the printer to turn the heater ON.



Turning the Power Off

<Printer>

- 1 Turn OFF the power ON/OFF switch on the operation panel for a couple of seconds.

SHUTDOWN
WAIT A MOMENT

The above message is displayed on the LCD to indicate that a shutdown process is in progress. After the process ends, the power is turned OFF.

Fill cap done:
After Printer switched on and in standby:
- First time after 20 hours
- Then every 3 days
After Printer switched off:
- 1 Time during switch down procedure

The fill cap (filling ink into the cap unit) is performed automatically to maintain good head condition at turning off the printer.

Press the **CANCEL** and the ON/OFF keys to skip the fill cap at turning off the printer.

Performing the fill cap operation is recommended.

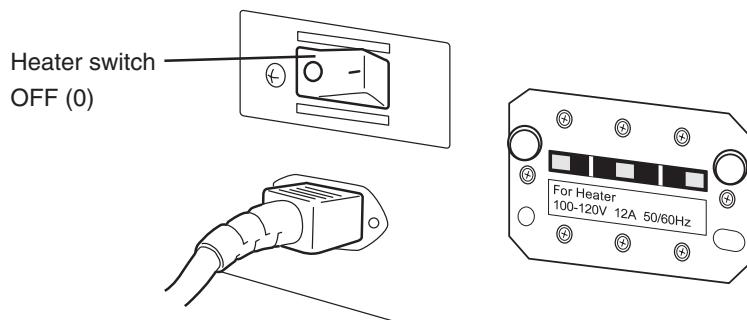
CAUTION

- The printer switch on the rear of the printer should be used only when the printer is turned OFF completely in order to move it, connect it with a computer, install or maintain its parts.
- Turn the power ON/OFF switch OFF, wait for at least ten seconds, then turn it ON again. **Necessary for Power Supply protection**
- The printer performs fill cap operation to keep the good head condition at first 20 hours after print wait state and every 3 days.

It is recommended to keep the printer ON.

<Heater>

1 The heater power is also turned OFF by turning OFF the ON / OFF switch on the operation panel. Therefore, the heater switch turning OFF operation is not necessary in the normal use.



NOTE

- Use the heater switch on the right rear of the printer only when turning the printer OFF completely for transferring, installing, and maintenance service of the printer.

Replacing the Paper Roll

This section describes how to install a paper roll in the printer, and remove it from the printer.

A paper roll is replaced in the following three cases:

- If a paper roll is replaced with another
- If it is replaced when it runs out
- If it is replaced when it jams

A paper replacement procedure in each case is explained below:

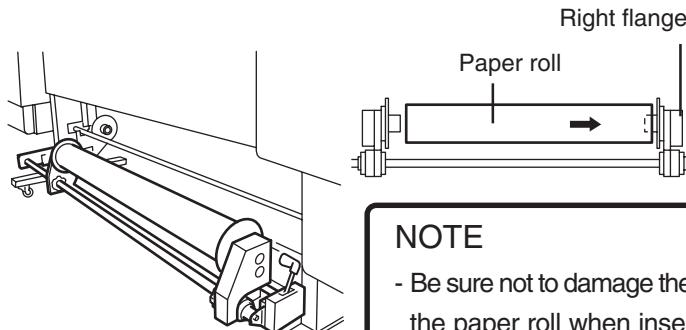
Installing Paper Roll in the Printer

- 1 Open the rear cover and slide the media edge guards to the both edge of the platen.

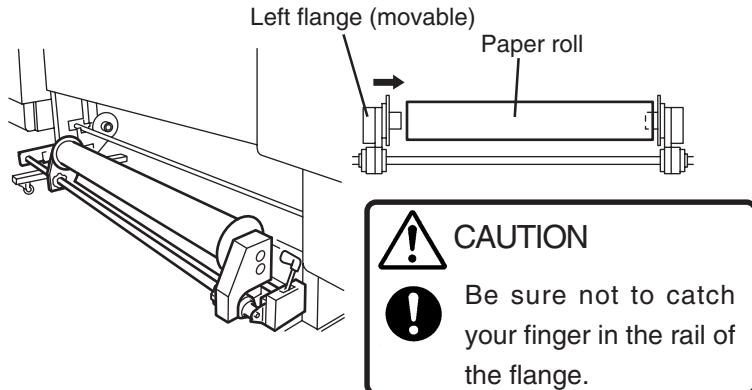
NOTE

- Set the media edge guard after completion of the paper roll replacing. (See page 2-45)

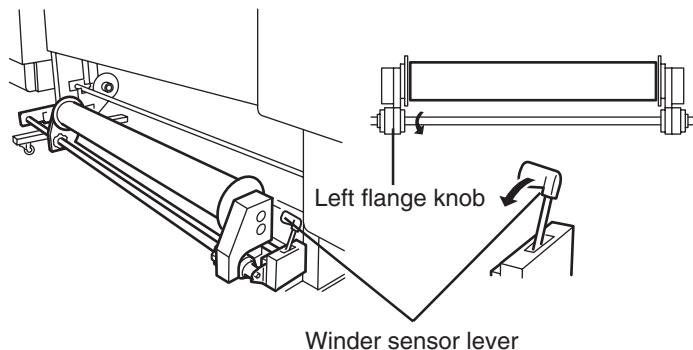
- 2 Insert the paper roll in the paper roll right flange (fix side).



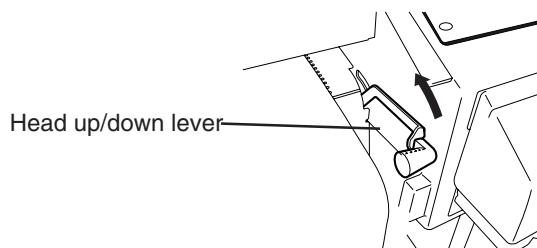
3 Slide the left flange (movable side) and put it into the paper roll.



4 Tighten the left flange knob securely.
Pull the winder sensor lever to front side.



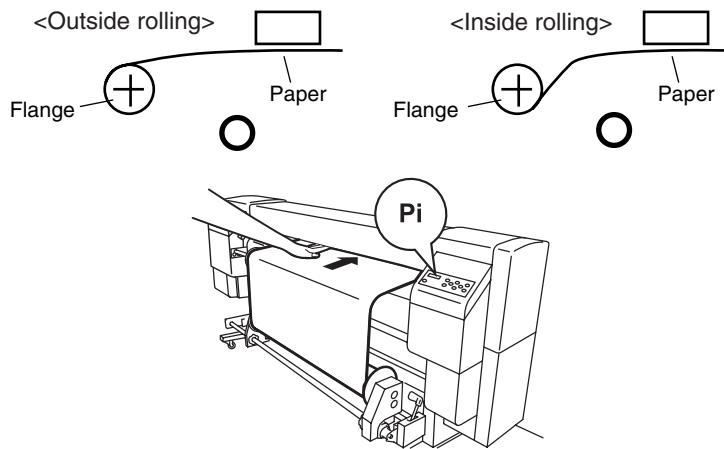
5 Lift the pressure roller up/down lever.



6 Feed the paper until a buzzer sounds from the paper feeder.

Feed the paper until an edge of the paper goes out 200 mm or more from the paper outlet.

(Paper setting direction)



NOTE

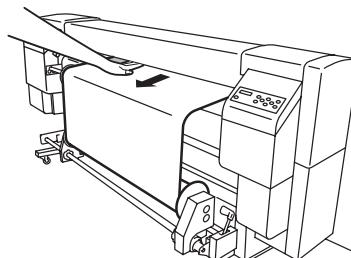
- Paper may stick to the paper feeder and is hard to set due to operational condition especially low humidity. In such a case, float paper from the paper feeder and set paper to the paper feeder by holding both edges of the paper.
- Be sure not to hit the edge of the paper roll by the rear cover.
- Be sure that the media edge guard is not set under the paper.
(See page 2-45 Using the Media Edge Guard.)

7

When feeding a paper roll, hold it at the center and rewind the flange to take up the slack in the paper. The guide line on the printer is no more than a guide line. Install paper roll on the printer in a straight line against the paper roll.

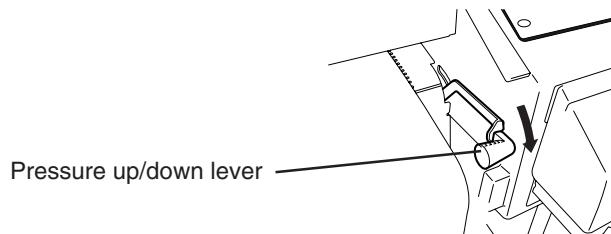
The paper roll should not be inserted in the right of the perforated line.

If the paper roll is inserted in the right of the perforated line, adjust the flange position.



8

Push down the pressure roller up/down lever.



Perform operations according to the guidance message shown on the LCD.

9

Confirm the media edge guard setting again.

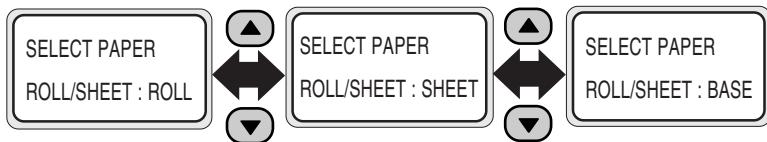
Confirm whether the media edge guard does not goes down of the paper.

CHECK EDGE GUARD

*OK?

Confirm the position of the media edge guard and press the **ENTER** key.

10 Select either paper roll or cut sheet.



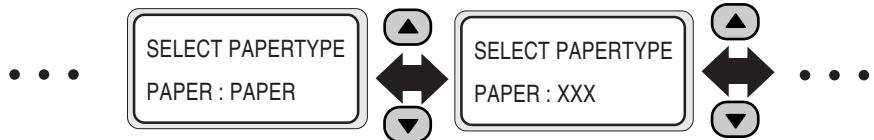
Select ROLL PAPER, CUT SHEET, or BASE with or key.

(See Page 2-23 "Using the Origin Point Setting Function" about "BASE")

Press the key to change setting.

Press the key to leave the setting as it is.

11 Select a paper type.

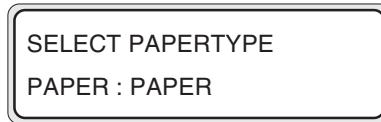


Select paper type with or key.

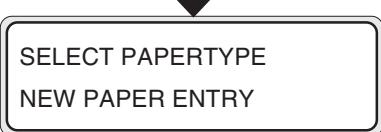
Press the key to change setting.

Press the key to leave the setting as it is.

(When registering a new paper type)



↓ Select a paper type with and keys.



- Press key to enter to NEW PAPER ENTRY menu.
- Operation of the new paper entry is the same as operation for paper entry from ENTRY menu.
- Press key to return to SELECT PAPERTYPE menu.

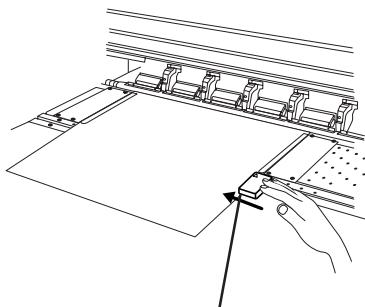
12 The paper will be set automatically.

PREPARING PAPER
WAIT A MOMENT



- If it is ended normally, return to offline or online state.
- If abnormal end occurs, an error message will be displayed.
Go back to 1.

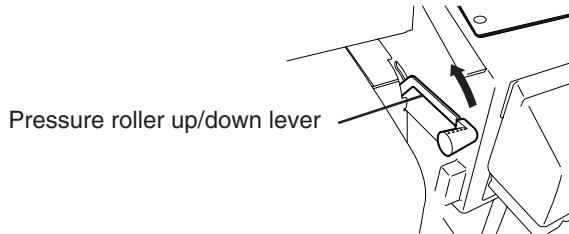
13 Determine positions of the media edge guard and the slide bar of the vacuum fan.



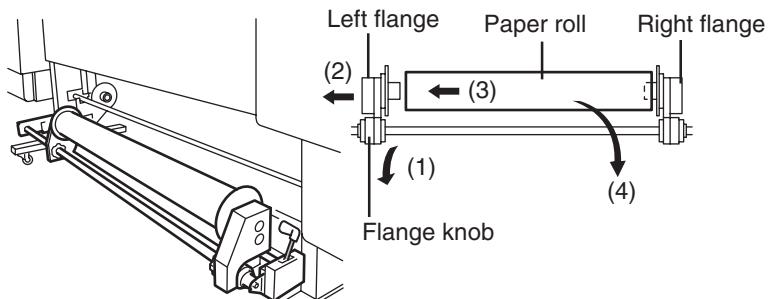
Slide bar of the vacuum fan

Removing the Paper Roll from the Printer

1 Lift the pressure roller up/down lever.

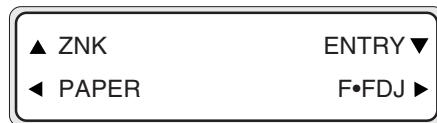


2 Loose the left flange knob, pull out the paper roll from the flange, and remove the paper roll from the printer.



Replacing Paper Roll with Another

1 Put the printer offline. (Press the **ONLINE** key.)



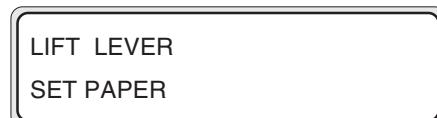
2 Press the **◀** key and press the **ENTER** key.



3 Replace the paper according to the "Installing Paper Roll in the Printer" and "Removing it from The Printer."

Replacing Empty Paper Roll

1 A message appears on the LCD.



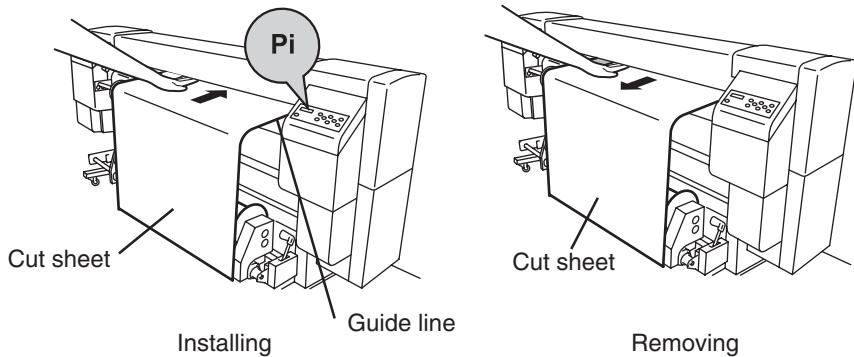
2 Replace the paper according to the "Installing Paper Roll in the Printer" and "Removing it from the Printer."

Replacing Jammed Paper Roll

See the Cleaning Paper Jam in Section 5, Troubleshooting.

Installing/Removing Cut Sheet in/from the Printer

Install/Remove the cut sheet in/from the printer refering to the procedures for the paper roll.



NOTE

- When installing the cut sheet in the printer, set the cut sheet using the guide line.

Replacing Ink Cartridges

This section describes how to replace an ink cartridge.

Ink cartridges should be replaced in the following two cases:

- If ink has run out
- If an ink cartridge is not installed

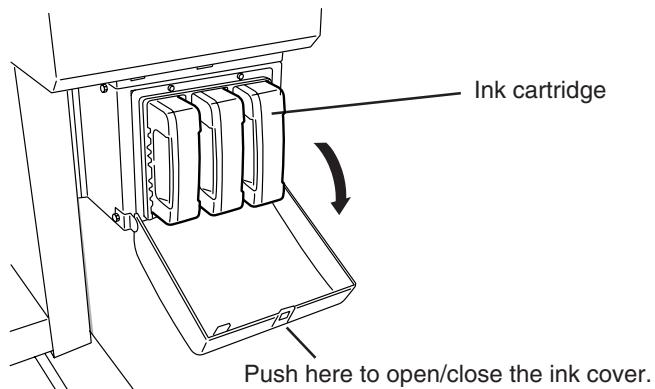
The ink cartridge replacement procedure in the following each case is explained below.

NOTE

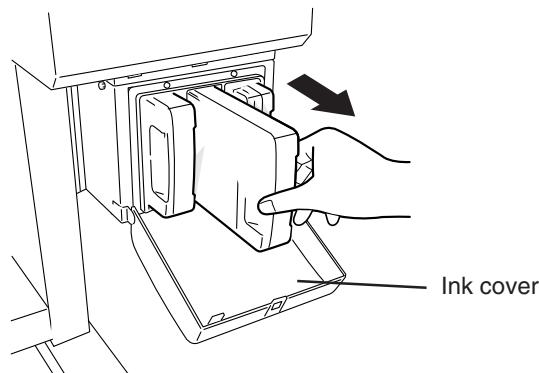
- Do not remove the ink cartridge from the printer until ink cartridge becomes empty.
- Make sure the upside and downside of the ink cartridge before installing.

Ink Cartridge Replacement Procedure

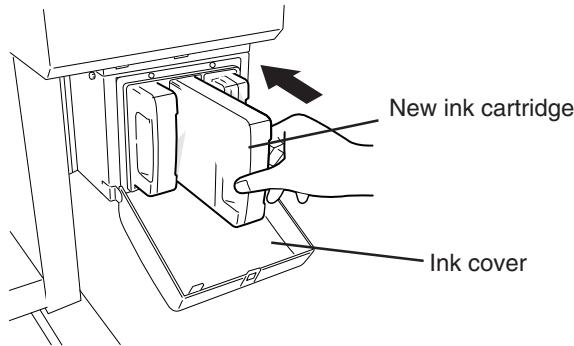
1 Open the ink cover.



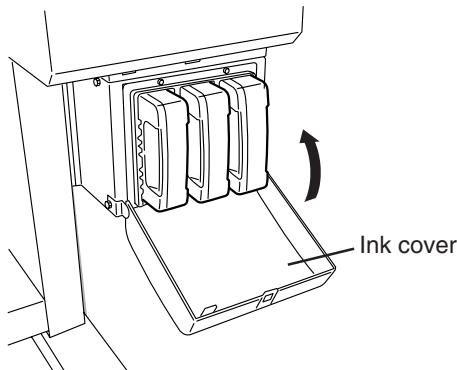
2 Remove an ink cartridge from the printer.



3 Insert a new ink cartridge into the printer.



4 Close the ink cover.



5 End of ink cartridge replacement.

- If it is ended normally, return to offline or online state.
- If abnormal end occurs, an error message will be displayed.
Go back to 1.
- The printer continues to print when the ink remains in the sub-tank during replacing ink cartridge.

Replacing Empty Ink Cartridge

1 A guidance message appears.



XX: Ink name

Bk: BLACK

Lm: LIGHT MAGENTA

Lc: LIGHT CYAN



XX: Ink name

C: CYAN

M: MAGENTA

Y: YELLOW

2 Replace the ink cartridge according to the "Ink Cartridge Replacement Procedure."

If an Ink Cartridge Is Not Installed

1 The guidance message appears.

OPEN L INKCOVER
SET XX INK

XX: Ink name

Bk: BLACK

Lm: LIGHT MAGENTA

Lc: LIGHT CYAN

OPEN R INKCOVER
SET XX INK

XX: Ink name

C: CYAN

M: MAGENTA

Y: YELLOW

2 Replace the ink cartridge according to the “Ink Cartridge Replacement Procedure.”

If an Ink Cartridge Is Not Detected

1 The guidance message appears.

OPEN L INK COVER
CHECK XX INK

XX: Ink name

Bk: BLACK

Lm: LIGHT MAGENTA

Lc: LIGHT CYAN

OPEN R INKCOVER
CHECK XX INK

XX: Ink name

C: CYAN

M: MAGENTA

Y: YELLOW

2 Replace the ink cartridge according to the “Ink Cartridge Replacement Procedure.”

Replacing the Waste Ink Bottle

This section describes how to replace a waste ink bottle.

The waste ink bottle should be replaced in the following two cases:

- If the waste ink bottle is full
- If the waste ink bottle is not installed

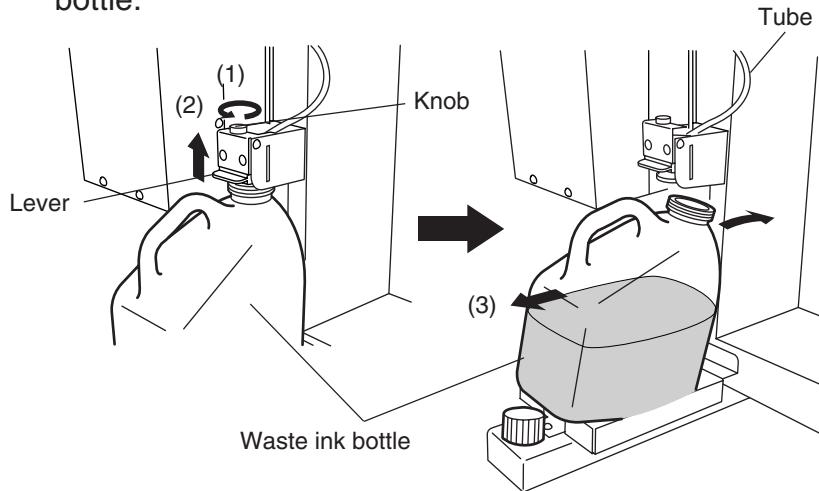
The waste ink bottle replacement procedures for these cases are explained below.

NOTE

- Do not replace the waste ink bottle during printing.

Waste Ink Bottle Replacement Procedure

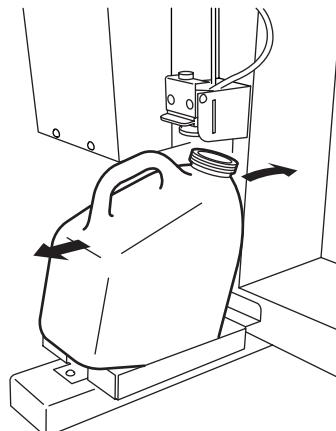
- 1 Loosen the knob and lift up the lever from the waste ink bottle.



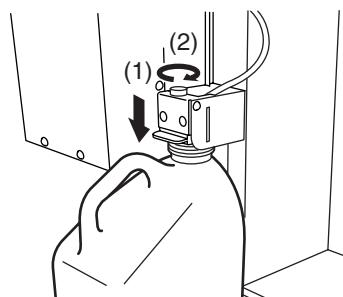
- 2 Wait for a while to drop the remaining ink into the ink tub.
- 3 Take out the filled waste ink bottle from the printer, and securely cap the waste ink bottle to replace with a new one.

4 Wipe up the spilt ink into the waste ink bottle unit.

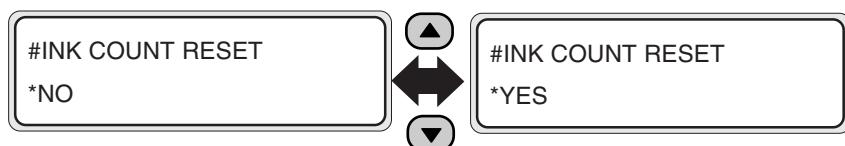
5 Lift the lever and mount a new waste ink bottle.



6 Drop the lever and insert the ink tube securely and tighten the knob.



7 The selection message of the waste ink counter setting (reset (clear)) will be displayed.



8 Select “YES” and press the **ENTER** key.

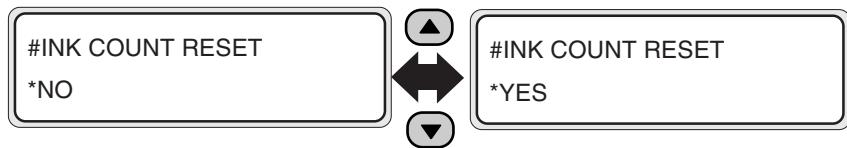
If the Waste Ink Bottle Is Full

1 Replace the waste ink bottle according to the “Waste Ink Bottle Replacement Procedure.”

NOTE

- Make sure visually whether or not the waste ink bottle is not full before using the printer.

2 The selection message of the waste ink counter setting (reset (clear)) will be displayed.



NOTE

- The waste ink counter is prepared for urging waste ink disposal with the error message when the waste ink is more than the specified amount by counting the used (waste) ink amount.

The waste ink counter can detect full of the waste simultaneously but cannot detect actual full state of the waste ink.

The counter counts up from the empty of the waste ink bottle. Always select “*YES” for the “INK COUNT RESET” menu when replacing the waste ink bottle with a new one. If not, the waste ink full counter cannot be only used effectively, but also the waste ink becomes full before generating warning and the waste ink may be spilt over.

3 Select “*YES” and press the **ENTER** key.

If the Waste Ink Bottle Is Not Installed

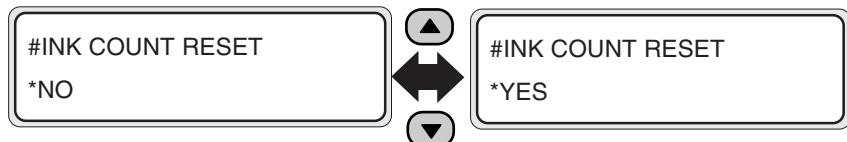
1 A guidance message appears on the LCD.



2 Insert a new waste ink bottle into the printer and install the waste ink bottle cover.

⇒ See the step 3 of the Waste Ink Bottle Replacement Procedure.

3 The selection message of the waste ink counter setting (rest (clear)) will be displayed.



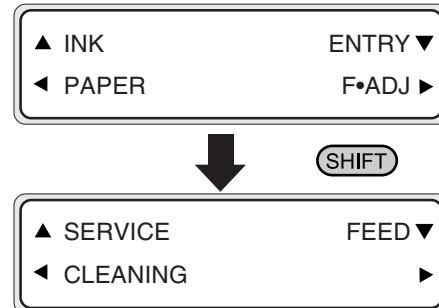
4 Select “*YES” and press the **ENTER** key.

Head Cleaning "CLEANING"

1 Put the printer offline. (Press the **ONLINE** key.)



2 Press the **SHIFT** key to display the CLEANING menu.



3 Press the **◀** key to enter the head cleaning menu.



4 Press the **ENTER** key.



5 Press the **◀** key and **▶** key to select a cleaning option.



6 Press the **ENTER** key.

#CLEANING

*BOTTLE OK?

7 Press the **ENTER** key again.

CLEANING

WAIT A MOMENT

XXX

XXX : Figure will be increased
in about 10 seconds.

NOTE

- The cleaning takes several minutes.

8 When the cleaning is completed, the screen is returned to step 3 automatically.

CLEANING

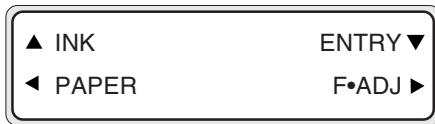
>NORMAL

9 Press the **◀** key to return to the original offline mode.

Paper Feed "FEED"

This section describes how to manually feed paper after printing.

- 1 Put the printer offline. (Press the **ONLINE** key.)



- 2 Press the **SHIFT** key to display the FEED menu.



- 3 Hold down the **▼** key.



While the **▼** key is kept pressed, the currently selected roll paper is fed. If a cut sheet is used, it is discharged.

- 4 When the **▼** key is released, paper feeding stops and the top screen returns to offline mode.



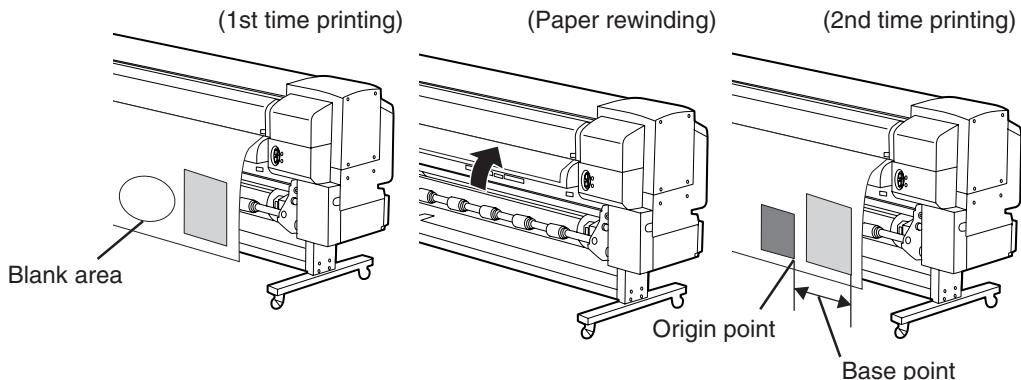
Using the Origin Point Setting Function

<Origin Point Setting>

When printing a small size image such as a A4 size image on the 64-inch width paper, the large blank will be generated as the figure shows below.

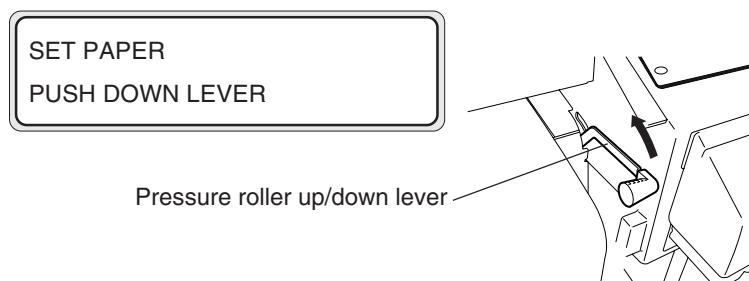
In this case, rewind the print paper and set the print origin point to print an image on the blank area.

The print origin point setting at paper rewinding is called as “Origin Point Setting Function.”



<How to Use the Origin Point Setting Function>

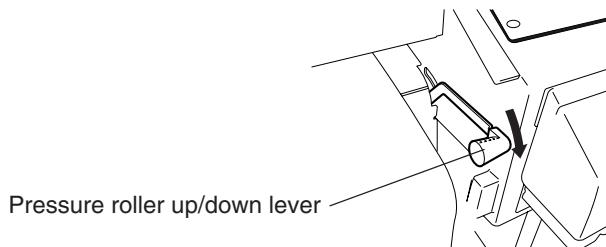
- 1 Lift the pressure roller up/down lever and rewind the paper.



NOTE

- Rewind the paper after the paper is enoughly dried.
If not, the 1st time printing image may be damaged.

2 Push down the pressure roller up/down lever.



3 Select "BASE" in the "SELECT PAPER" menu and press the **ENTER** key.

SELECT PAPER
ROLL/SHEET: BASE

4 Input the paper width and press the **ENTER** key.

PAPER WIDTH
*1372 mm

The paper width detected at previous time is displayed.
(Paper width input range: 290 to 1635 mm)

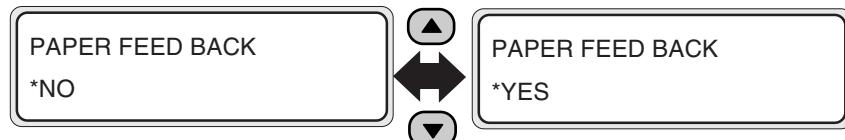
5 Input the base point (print offset value for paper width direction: origin point).

BASE POINT
*0000 mm

The base point set at previous time is displayed.

The previous setting value will be displayed.

6 Select “*Yes” or “No” of back feed operation.



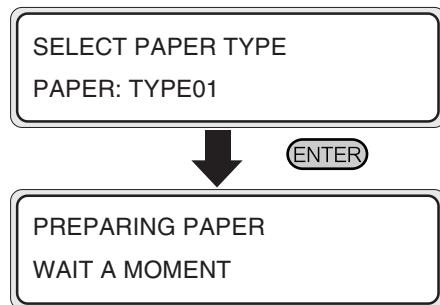
The area from the paper output sensor position to the print start position (the grid roller) becomes print dead area.

The print dead area can be decreased by rewinding the paper for length between the paper output sensor and grid roller.
(20 to 30 mm from the front edge cannot be printed.)

NOTE

- Cut the edge of the paper so that it will be parallel to the guide line before installing the paper.
If the edge of the paper is not parallel to the guide line, the front side of the print is cut, the platen is stained with ink, and the paper jam may be caused.

7 Select a paper type again.



NOTE

- When using the origin point setting function, keep front, right, and left margins sufficiently because the paper is rewinded manually.
- The paper width and base point settings cannot be saved.
- The origin point setting function can be used only for paper roll. This function cannot be used for the cut sheet.

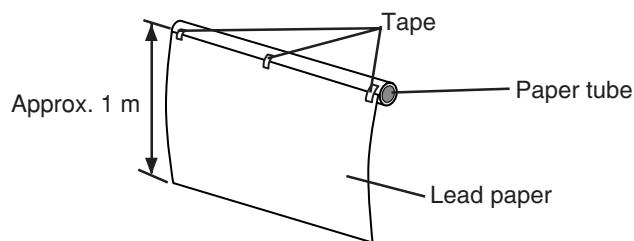
Installing Paper on Winder

A paper winder unit is built in the printer. It winds roll paper for storage without cutting it.

Use the paper winder unit as follows:

- 1 Prepare the paper tube and 1 m-lead paper of which paper width is the same as the paper's you will use.

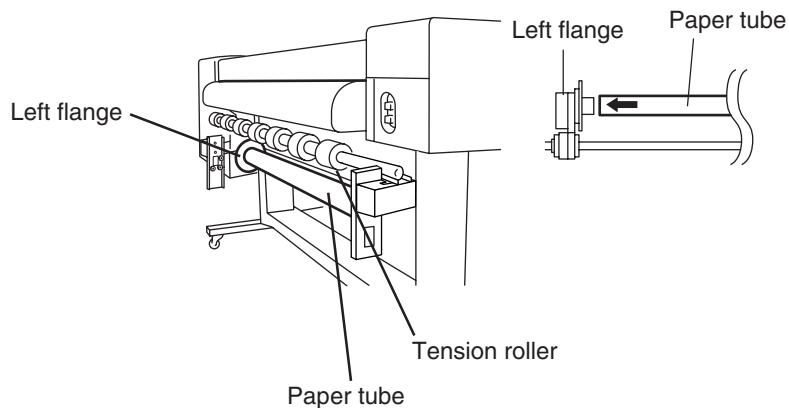
Attach the lead paper on the paper tube.



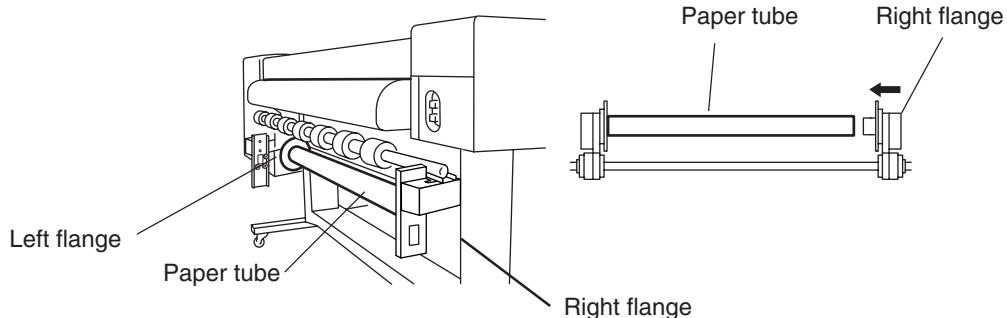
NOTE

- Pay attention to the direction of attaching tape on the winding side according to the winding direction setting (outer side rewind/inner side rewind).
- Attach the paper to the take out roller straightly to protect slanting feed.

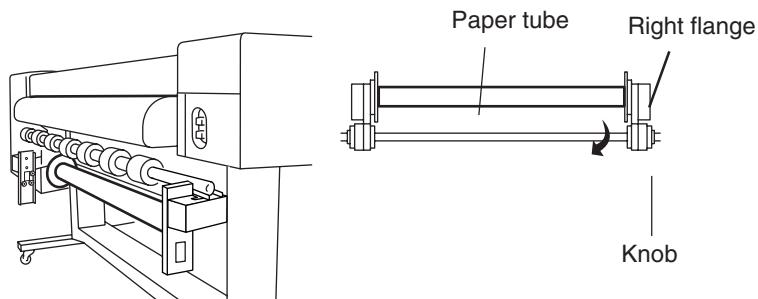
- 2 Insert the paper tube with the lead paper to the left flange.



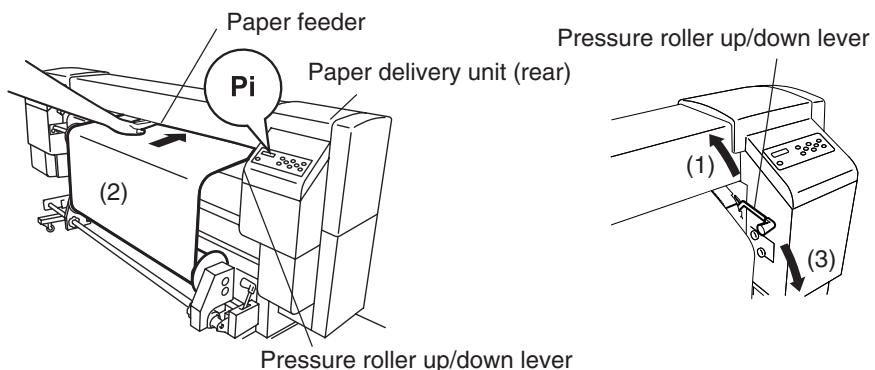
3 Slide the right flange (movable side) and insert it into the paper tube.



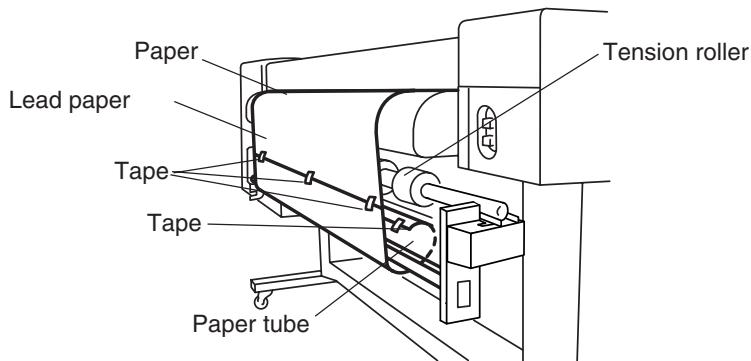
4 Tighten the right flange knob securely.



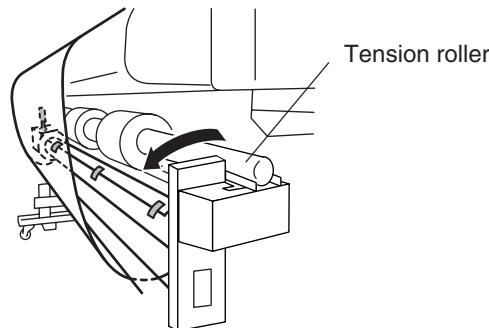
5 Lift the pressure roller up/down lever, insert paper from the paper feed side through the paper feeder, push down the pressure roller up/down lever, and feed paper from the Feed menu on the operation panel (see Section 3, Operation Panel Menu Operations (Feed Menu)) until paper is wound.



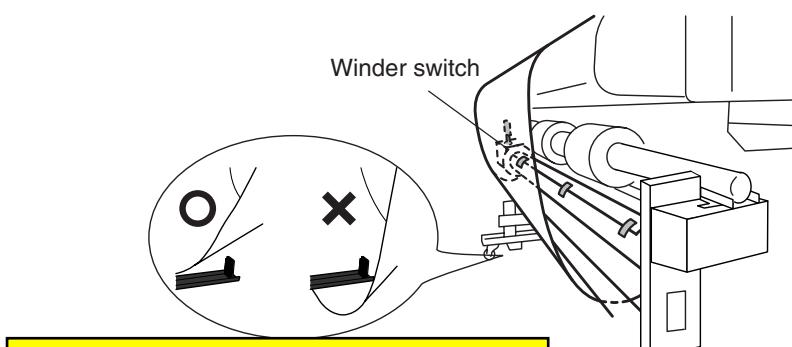
6 Tape the edge of the paper on the lead paper at three positions: both sides and center.



7 Manually turn the scroller flange in the direction of winding to wind the paper slightly.



8 Check the positions of the paper and winding sensor, and install it.



9 Check the position of the winder switch:

Switch position
Outside
Centre
Inside

Winding
Outside
Off
Inside

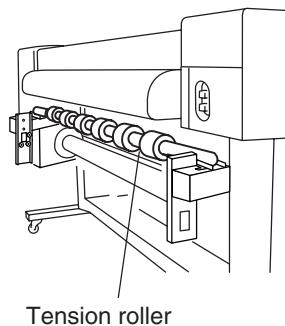
- The winding unit supports two winding methods; tension winding and slack winding.

Generally, use the slack winding. If the slack winding does not work correctly, use the tension winding.

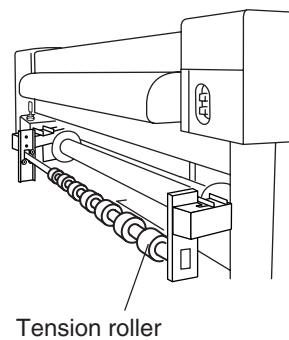
Also, inner winding and outer winding are available.

- Tension roller setting.

- Slack winding: Set the tension roller to the upper side.



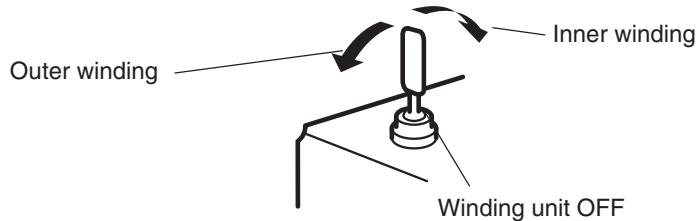
- Tension winding: Set the tension roller to the lower side.



● Winding unit switch setting

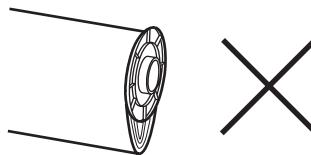
Either internal winding or external winding can be selected.

When the winding unit is not used, turn the winding unit switch off.



NOTE

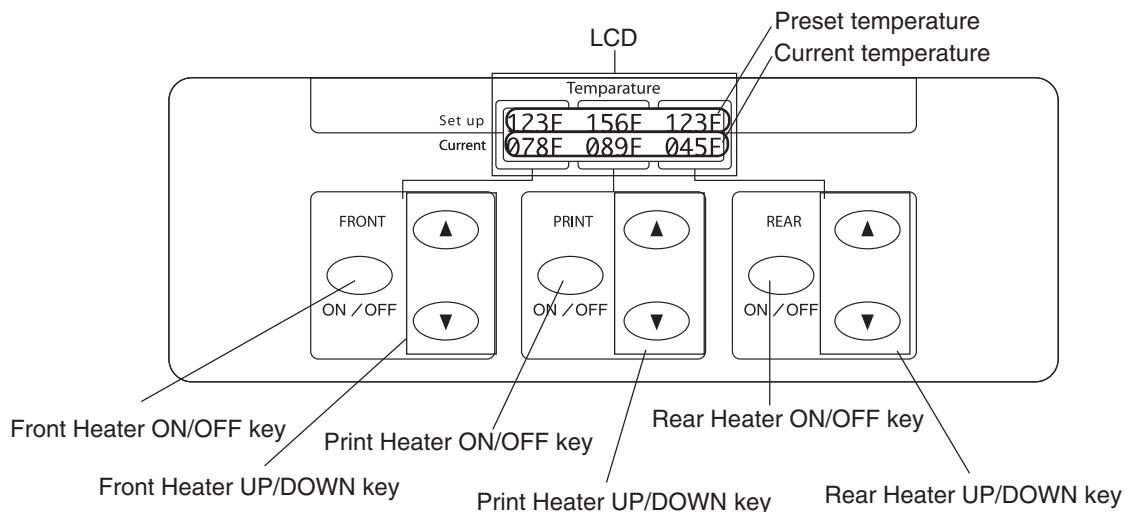
- Slacken the paper so that it passes inside the winding sensor.
- If the winding unit is not used, turn the winding unit switch off.
- When the paper roll for the winding unit nears the diameter of the winding unit's flange, remove the winding side paper roll and replace the paper tube with a new one.
If not so, a winding error may occur.



In case that the paper roll for the winding unit exceeds the diameter of the winding unit's flange.

- When printing without using a winding unit, edge of paper or printing surface may be damaged or be folded due to contact with the winding sensor caused by winds.

Changing Heater Control Setting Temperature



In normal use, temperatures of all heaters for the every selected media are preset automatically.

Therefore, ON/OFF setting and temperature setting for all heaters are not necessary.

Use the heater control panel only when the fine adjustment for the heater temperature is desired.

Set on/off and setup temperature of three heaters on the heater control panel.

- ON/OFF setting: Use ON/OFF key for each heater.
- Temperature setting: Use the up key or down key for each heater.
- LCD screen: (When the heater is turned ON)
 - Upper line: Preset temperature for each heater
 - Lower line: Current temperature for each heater (When the heater is turned OFF)
 - Upper line: "OFF" for each heater
 - Lower line: Current temperature for each heater

The preset temperature range is fixed to 15 °C to 55 °C.

■ Precautions for setting the heater temperature

The heater temperature is preset automatically, but the ON/OFF setting for all heaters are not preset automatically.

Therefore, in normal use, keep the heaters to the ON state (state that temperatures are displayed).

■ Heater preset temperature by medium

The heater preset temperature for medium is listed in the table. Preset the heater temperature according to the media you use.

Medium	Media Type	Recommended preset temperature			Print mode
		FRONT	PRINT	REAR	
Glossy vinyle chrolide	Glossy	45° C	40° C	45° C	4 path bi-direction
Mat vinyle chrolide	Matte	45° C	40° C	45° C	4 path bi-direction
Banner	Banner	45° C	40° C	45° C	4 path bi-direction

NOTE

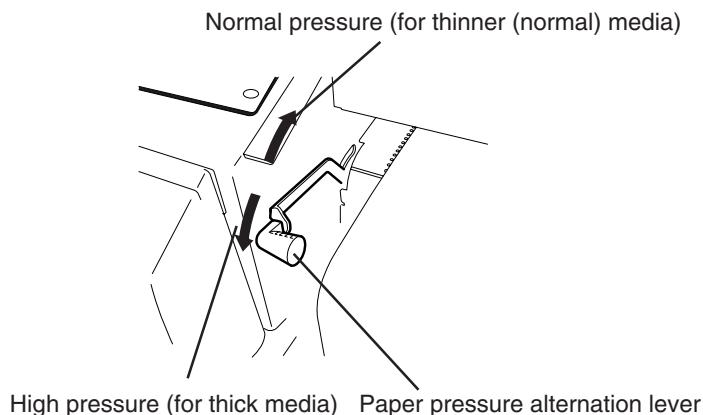
- When the rear heater temperature is set to high, fixibility of the ink is improved, but media wrinkle or mat print may be caused.
Adjust heater temperature according to the media type and environmental temperature.
- Set the front/rear heater temperature higher 5 °C than the print heater's.
Bad temperature balance between the front/rear heater and print heater may cause media wrinkle.

Using the Media Pressure Alteration Lever

Alternate the media gripping pressure of the paper transmission roller according to the media.

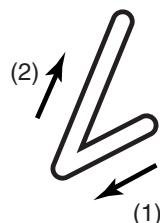
Use the media pressure alteration lever to alternate the media gripping pressure (See the figure below).

Generally, set the media pressure alteration lever to “normal pressure.” When media cannot be fed correctly due to skew, set the media alteration lever to “high pressure”.



NOTE

- The shape of the lever groove is shown below.

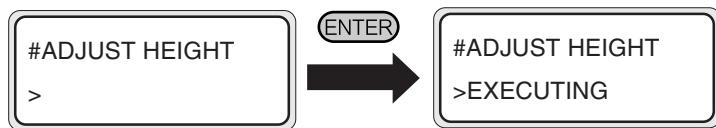


Pull the lever front and push up the lever for alternate the pressure from high to normal.

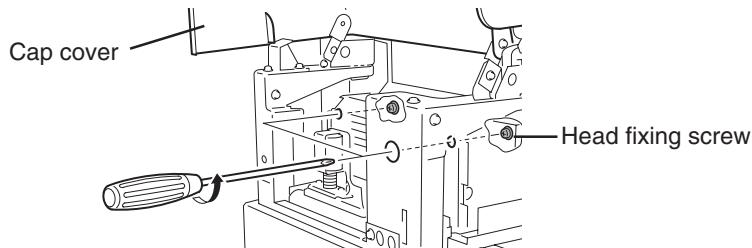
Using the Head Up/Down Lever

Alternate the head height according to the media you use.
Use the head up/down lever for alternating the head height.
(See the figure below)

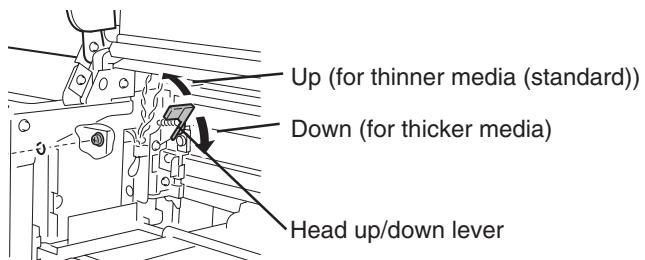
- 1 Enter SERVICE menu and execute HEAD HEIGHT ADJ on the operation panel.



- 2 Open the cap cover and loosen the head fixing screws (2 pieces) with a screw driver.



- 3 Alternate the height of the head with the head up/down lever.



Generally, preset the head up/down lever up for glossy vinyl chloride and matted vinyl chloride, and preset the head up/down for banner and FF.

When the paper thickness is 0.5 mm or more, preset the head up/down lever up regardless of media type.

When the head is rubbed with the media due to media floating, preset the head up/down lever down even for the thinner media.

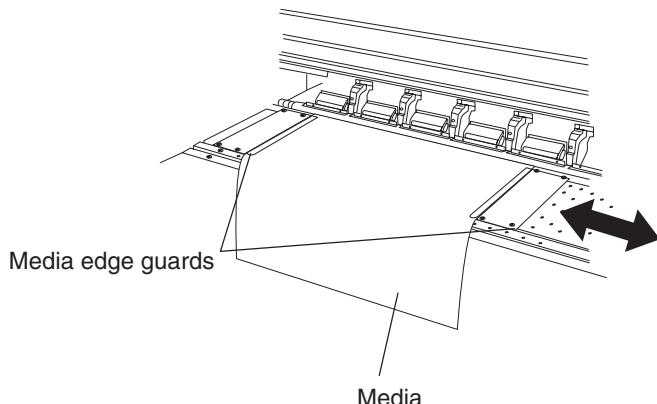
4 Tighten the head fixing screws (2 pieces).

NOTE

- When changing the height of the head, tighten the head fixing screws while pushing the head down softly with your hand.
- When the head height is changed, change head height setting (19) in ENTER menu.
- When the head height is changed, print gap may be occurred at reciprocating print. In that case, adjust the correction value for reciprocating print. (See (20) Reciprocating print position (Left) adjustment value, and (21) Reciprocating print position (Right) adjustment value in ENTRY menu.)

Using the Media Edge Guard

Mount the media edge guard on the right and left media transmission path to protect the head from nap and curl of the media edge.



NOTE

- Preset whether or not the edge guard exists in the PAPER menu on the operation panel corresponding to the mounting the media edge guard.
The right and left margin of the print area will be changed according to the setting of the edge guard.
- When using the media edge guard, right and left margin of the print area becomes 10 mm.

Using the FAN Guard Positioning Bar

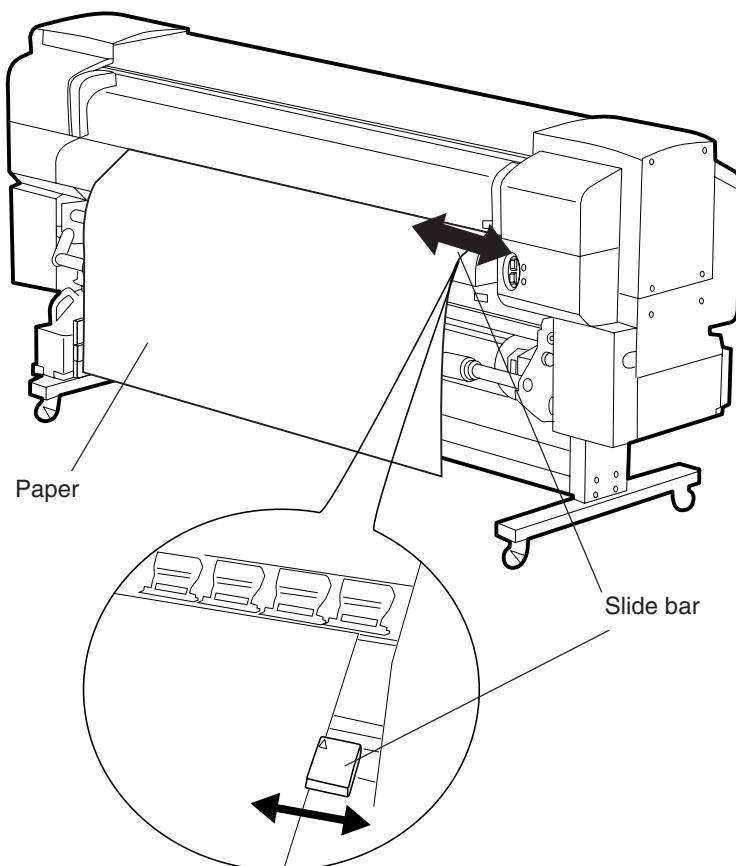
Cut suction of the FAN for unused area to protect the head from suction of the FAN.

Slide the FAN guard positioning bar between 50 inch width and 64 inch width.

Set the FAN guard positioning bar according to the media width you use.

NOTE

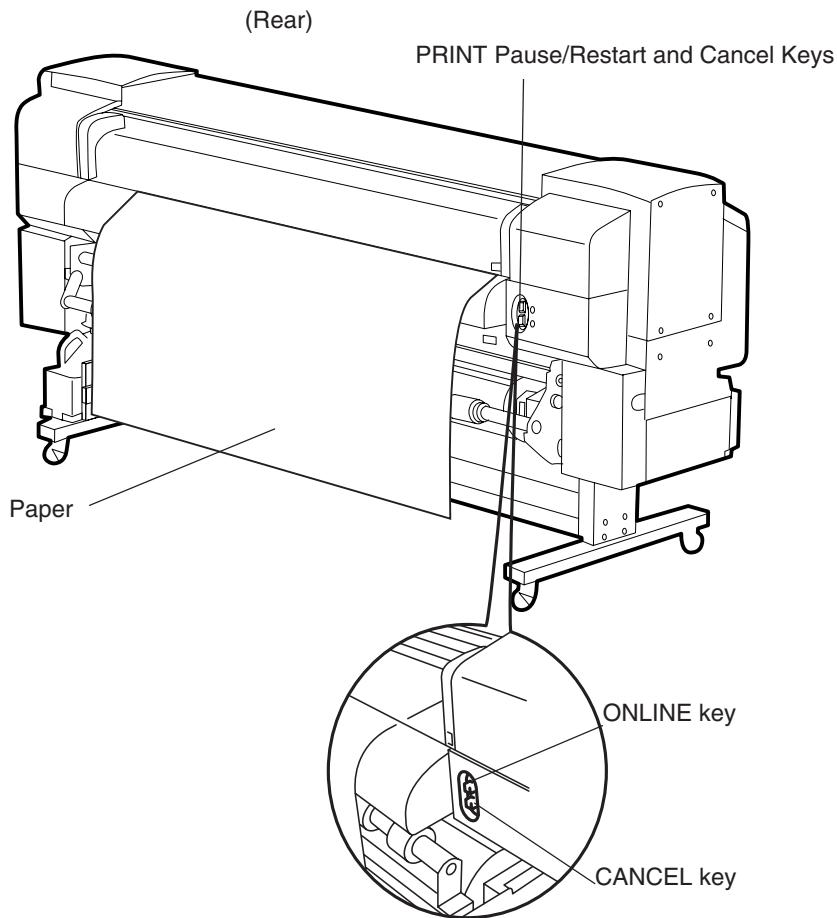
- When setting the FAN guard positioning bar for 50 inch width media at 64 inch width media printing, the media cannot be passed.
- Do not move the fan guard positioning bar during print. If the fan guard positioning bar hits the media, paper jam could be occurred.



Using the Print Pause/Restart and Cancel Keys

Print pause/ restart and print cancel are also available from the rear (paper outlet side) of the printer.

Print pause/re-start and print cancel are available during checking the print condition from the paper outlet side.



ONLINE key: Pause/restart printing

CANCEL key: Cancels printing

Operations of the ONLINE and CANCEL keys are the same as those of the operation panel's.

Inspection & Maintenance

Regular inspection and maintenance by operators are described below.

■ Regular inspection and maintenance guide

The printer needs regular inspection and maintenance.

The table below lists all regular inspection and maintenance.

For details of each regular inspection and maintenance, see the page to be referred.

	Category	Inspection/Maintenance	page to be referred
1	Daily inspection and maintenance	<ul style="list-style-type: none">- Capping Unit Cleaning- Wiper Blade Cleaning- Wiper sponge cleaning- Test Print- Waste Ink Bottle Disposal	2-49
2	Every one month inspection and maintenance	<ul style="list-style-type: none">- Head cleaning	2-52
3A	When leaving the printer for a long time in power off state (more than 2 weeks)	<ul style="list-style-type: none">- Service Clean	2-53
3B	When returning the printer from a long time leaving (more than 2 weeks)	<ul style="list-style-type: none">- Head Wash- Ink charge after head washing	2-54
4	When returning the printer from a long time leaving (within 2 weeks) in power off state.	<ul style="list-style-type: none">- Head Wash- Ink charge after head washing	2-55
5	When leaving the printer in power off for more than one month	A service call error message will be displayed on the operation panel. Contact our service center.	2-56

See also page A4

1

■ Daily inspection and maintenance

NOTE

Perform the followings every day before print.

<Capping Unit Cleaning>

Enter to the SERVICE menu and select “CAP CLEANING” on the operation panel.

#CAP CLEANING

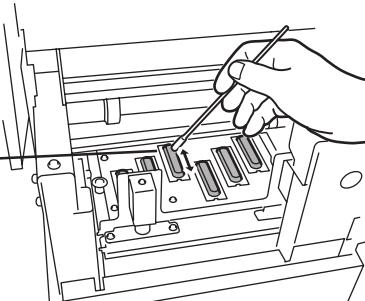
>

The head carriage will move to the center of the printer (platen) and you can access easily to the capping unit.

Open the rear cover and cap cover. Wipe up the edge and periphery of the upper surface of all (six) caps carefully with the cotton swab.

Use Capping fluid and gloves

the
Clean ~~the~~ edge and periphery
of the upper surface of the
cap.



Close the cap cover and rear cover. The head carriage will return to the capping unit position (home position) automatically.

NOTE

- Do not leave the printer for long time in the condition that the head carriage is not on the capping unit.

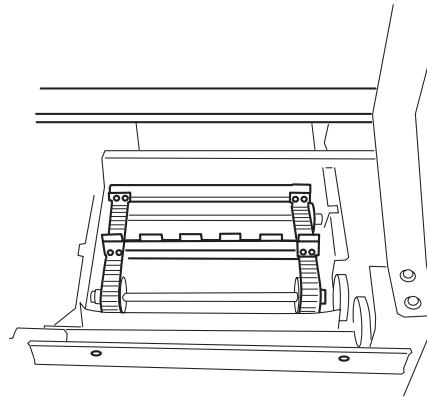
Note: When the swab moves smoothly over the surface the caps are clean

<Wiper Blade Cleaning>

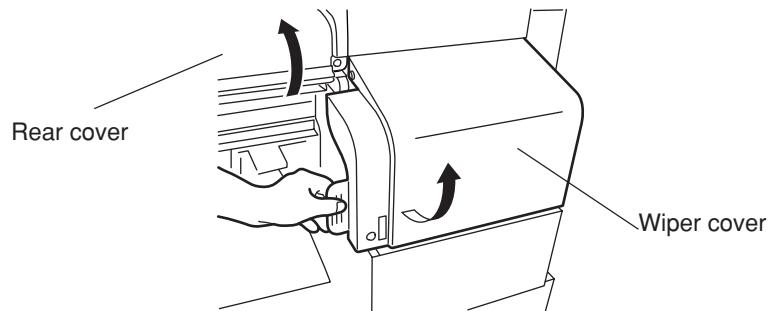
Enter to the “SERVICE” menu and select “WIPE CLEANING” on the operation panel.



The wiper blade will come up for cleaning.



Open the rear cover and the wiper cover.

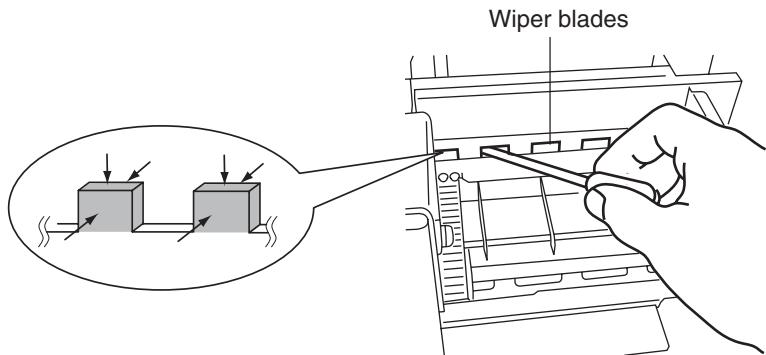


Check no dregs of the dried ink and no damage on the blades.

Clean the front and back of the blades with the swab infiltrated into the wiper cleaning liquid.

Note: Do not use the same swab for each wiper

After completion of the cleaning, close the wipe cover and the rear cover to return the wiper to the position as it was.



<Test Print>

Enter to the “ADJUST” menu and select “TEST PRINT” on the operation panel. (See page 3-19.)

Check no print dot-off and missing.

Perform the test print as the 1st time print on every day and especially after cap cleaning for head cleaning.

When the print dot-off occurs at test print, enter to the “CLEANING” menu and select “NORMAL.” (See page 3-25.)

NOTE

- Do not leave the head carriage at the position other than on the capping unit for a long time (more than 5 minutes).
- Perform the normal head cleaning after completion of the test print.

<Waste Ink Bottle Disposal>

Pour the waste ink into the proper container you prepared and make the waste ink bottle empty.

<Wiper sponge cleaning>

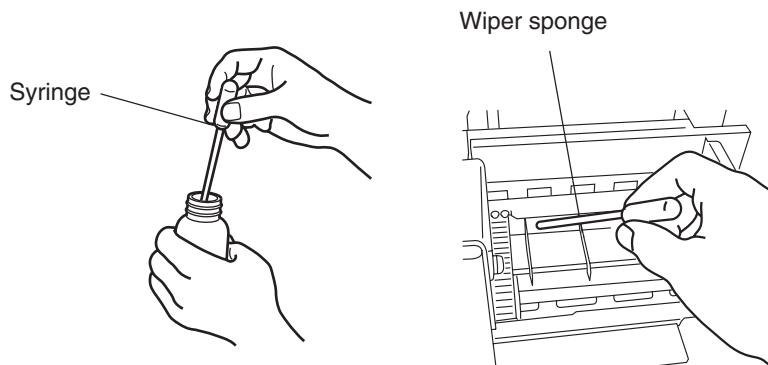
The wiper sponge has to be moistened.

Check the moisture of the sponge every day before printing.

Check whether the sponge is dried by pressing the dried swab on the sponge.

If the sponge is dried, moisten it with the wiper cleaning liquid. For details, contact our service center.

Moisten with 2 à 3 syringes is sufficient.



2

■ Every one month inspection and maintenance

<Head Cleaning>

Clean the head one time per a month according to the documentation attached to the head cleaner kit.

3A

- When leaving the printer for a long time (more than 2 weeks) in power off state

Needed is Storage kit

Store the printer after cleaning the head and ink path with the maintenance liquid and charging the maintenance liquid.

Six maintenance liquid cartridges and six dummy cartridges are mandatory.

<Service Clean>

Enter to the “SERVICE” menu and select “ SERVICE CLEAN.”

```
#SERVICE
>SERVICE CLEAN
```

The head wash operation is mandatory when returning the printer from the status that the service clean is performed.

3B

- When returning the printer from a long time leaving (more than 2 weeks)

Perform the cleaning of the head and ink path with cleaning liquid.
Six cleaning liquid cartridges and six dummy cartridges are mandatory.

Needed is Cleaning kit

<Head Wash>

Select HEAD WASH in SERVICE menu on the operation panel.

```
#SERVICE  
>HEAD WASH
```

After performing the head wash, charge the ink (See Ink Charge after Head Washing).

NOTE

- The printer performs fill cap operation to keep the good head condition at first 20 hours after print wait state and every 3 days.
It is recommended to keep the printer ON except when the printer is not used for a long time.
Avoid leaving the printer with no ink for one month or more for head protection.
- Do not open and close the rear cover and do not lift and push down the levers during service cleaning and head washing.
If doing so, the printer may start service cleaning and head washing from the begining.

<Ink Charge After Head Washing>

Charge the ink after head washing before printing when the printer is leaved for a long time.

Enter to “SERVICE” menu and select “INK CHARGE” on the operation panel.

```
#SERVICE  
>INK CHARGE
```

Insert the ink cassettes and charge the ink.

Leave the printer for at least one hour after completion of ink charging.

Check moisture of the wiper sponge.

Perform the test print.

When the print dot-off occurs during the test print, perform normal cleaning in the “CLEANING” menu.

(See page 3-38.)

4

■ When returning the printer from a long time leaving (within 2 weeks) in power off state. leaving the printer in Power off state [less than 2 weeks]

<Head Wash>

Needed is Cleaning kit

Perform the cleaning of the head and ink path with cleaning liquid.

Six cleaning liquid cartridges and six dummy cartridges are mandatory.

```
#SERVICE
>HEAD WASH
```

After performing the head wash, charge the ink (See Ink Charge After Head Washing).

NOTE

- The printer performs fill cap operation to keep the good head condition at first 20 hours after print wait state and every 3 days.

It is recommended to keep the printer ON except when the printer is not used for a long time.

Avoid leaving the printer with no ink for one month or more for head protection.

- Do not open and close the rear cover and do not lift and push down the levers during service cleaning and head washing.

If doing so, the printer may start service cleaning and head washing from the begining.

Printer on:
20 hours standby [no print -> Fill cap afterwards every 3 days.
See also page 2-9

<Ink Charge After Head Washing>

Charge the ink after head washing before printing when the printer is leaved for a long time.

Enter to “SERVICE” menu and select “INK CHARGE” on the operation panel.

```
#SERVICE  
>INK CHARGE
```

Insert the ink cassettes and charge the ink.

Leave the printer for at least one hour after completion of ink charging.

Check moisture of the wiper sponge.

Perform the test print.

When the print dot-off occurs during the test print, perform normal cleaning in the “CLEANING” menu.

(See page 3-38.)

5

■ When leaving the printer in power off for more than one month

Regardless of performing the service cleaning, a service call error message will be displayed on the operation panel.

Contact SIIT service centers.

NOTE

- Do not leave the printer without maintenance liquid charge more than 2 weeks in power off state for head protection.
- When leaving the printer more than one month, consult with shops or our nearest service office in advance.

■ Cleaning outer case

If the outer case of printer was stained, wipe up stain with soft cloth soaked in water or water downed neutral detergent and wringed well.

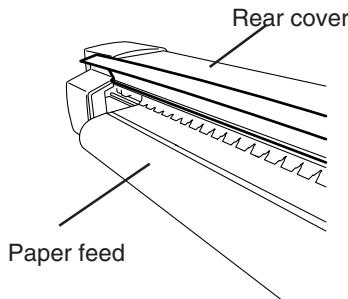
NOTE

- Turn OFF the printer power switch before cleaning.
- Do not use volatile solvent such as thinner and benzine to prevent fade or deterioration of printing.

■ Cleaning rear cover and paper feed

Vacuum dust with a vacuum cleaner.

If stains are heavily accumulated, wipe up them with soft cloth soaked in the cleaning liquid.



NOTE

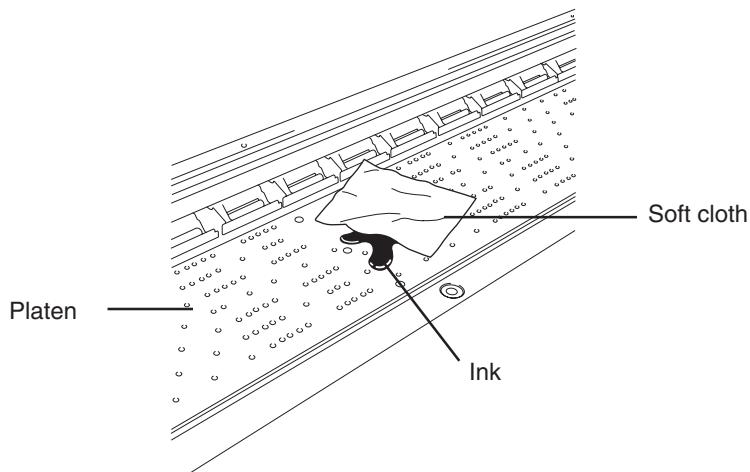
- Turn OFF the printer power switch before cleaning.
- Do not blow off paper dust.
If doing so, print quality gets bad influence.

■ Cleaning platen

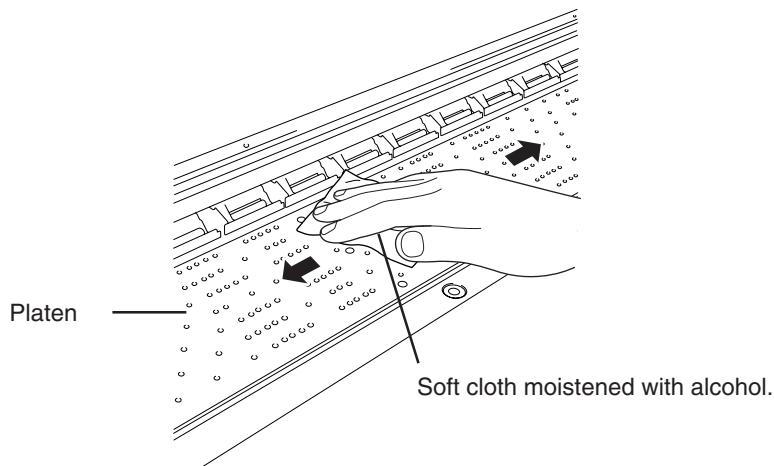
When glue adheres to platen or ink drops on the platen, clean the platen according to the following procedures:

- 1 Open the rear cover and put a soft cloth on ink stained on the platen to infiltrate ink into the soft cloth.

Infiltrate ink into the soft cloth with care so as not to spread it.



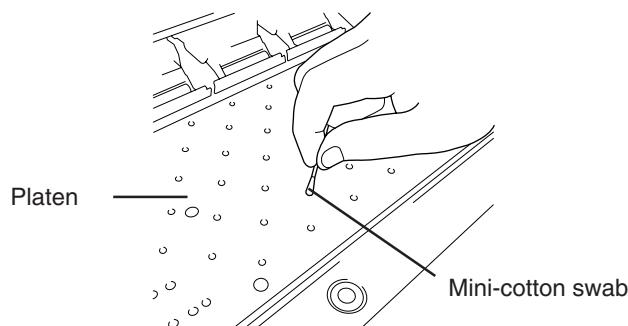
- 2 Wipe out the ink mark on the platen with a soft cloth moistened with alcohol.



3

If ink gets into vacuum holes on the platen, wipe out ink clung to the holes with a commercially-available mini-cotton swab, then wipe out again with a mini-cotton swab moistened with alcohol.

Use a $\phi 3$ mm mini-cotton swab.



Section 3 Operation Panel Menu Operations

This section outlines the user menu structure and operations.

Contents of This Section

Basic Menu Operation

 Menu Hierarchical Structure

 Menu Tree

 Basic Operations and Keys

 Operation Procedures for Choice Input, Value Input,
 Execution and Character Input

Menu Operations

 INK Menu

 PAPER Menu

 ENTRY Menu

 F.ADJ Menu

 SERVICE Menu

 CLEANING Menu

 FEED Menu

 FUNC Menu

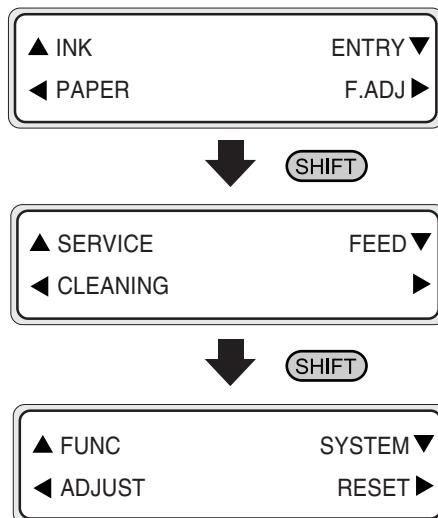
 ADJUST Menu

 SYSTEM Menu

 RESET Menu

Basic Menu Operation

When the **ONLINE** key is pressed in the online idle mode, the printer enters to the offline mode, a menu group appears on the LCD, and menu operations are enabled.



Menu Hierarchical Structure

The menu has the following hierarchical structures:

<Menu group>

This menu is displayed at the first level.

Some menus have several sub-menus.

<Second-level menus>

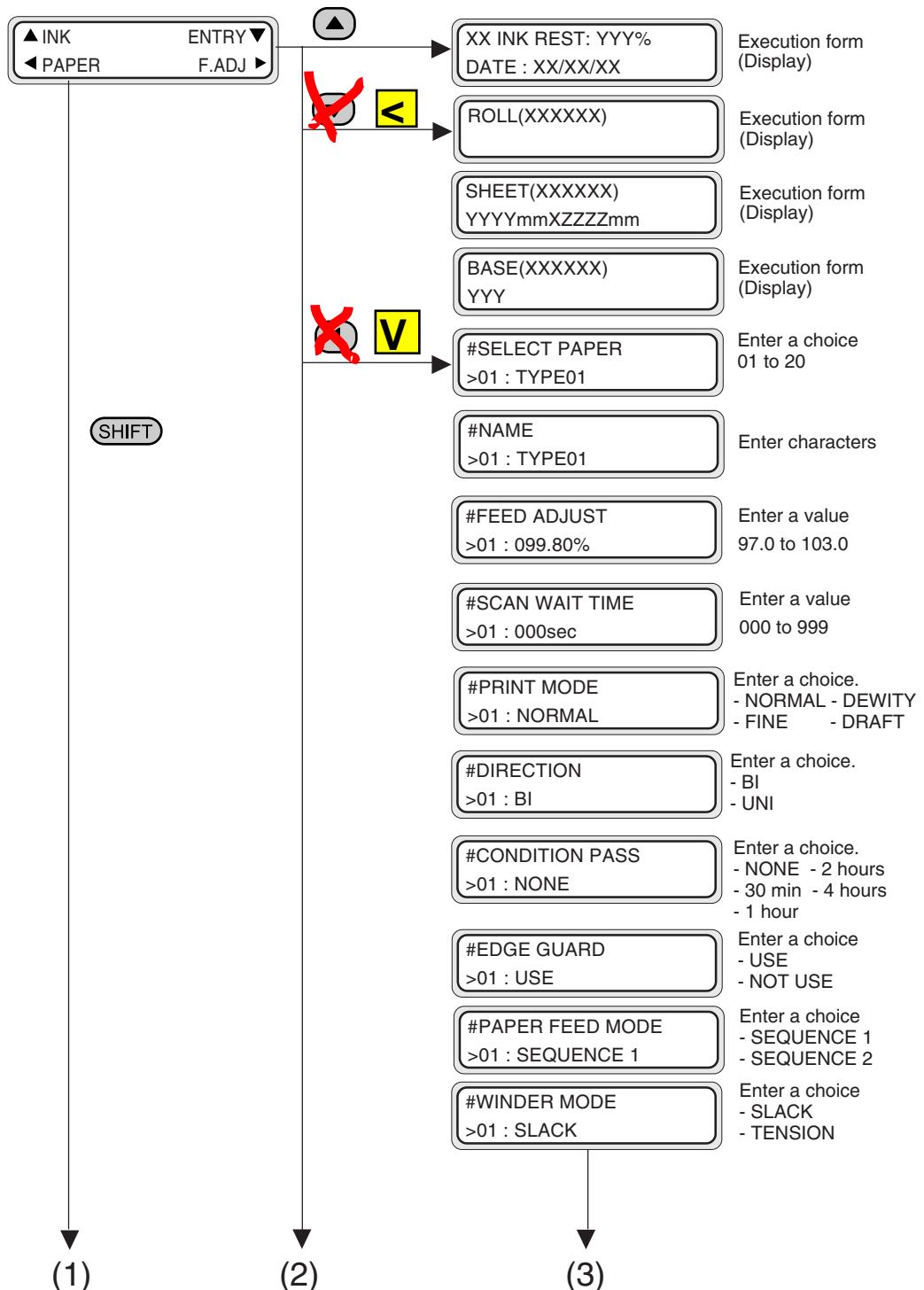
Sub-menus of the menu group

<Parameters>

Select a selected menu item or enter a value.

There are three methods: choice, value entry, and execution.

Menu Tree



(3)

#PAPER SET MODE
>01 : NORMAL

Enter a choice
- NORMAL
- SAVING

#VACUUM
>01 : NORMAL

Enter a choice
- NORMAL
- LOW

#WAIT HEATER
>01 : WAIT

Enter a choice
- WAIT
- SKIP

#FRONT HEATER
>01 : 30C

Enter a value
15 to 55

#PRINT HEATER
>01 : 40C

Enter a value
15 to 55

#REAR HEATER
>01 : 50C

Enter a value
15 to 55

#COLOR STRIPE
>01 : OFF

Enter a choice
- OFF
- ON

#HEAD MOTION
>01 : NORMAL

Enter a choice
- NORMAL
- HIGHLIGHT

#HEAD HEIGHT
>01 : NORMAL

Enter a choice
- NORMAL
- HIGH

#I-POS (L) ADJ YY
>01 : +00&A

Enter a value
-32 to +31, a to H
YY: Bk, Lm, Lc, Y, M, C

#I-POS (R) ADJ YY
>01 : +00&A

Enter a value
-32 to +31, a to H
YY: Bk, Lm, Lc, Y, M, C

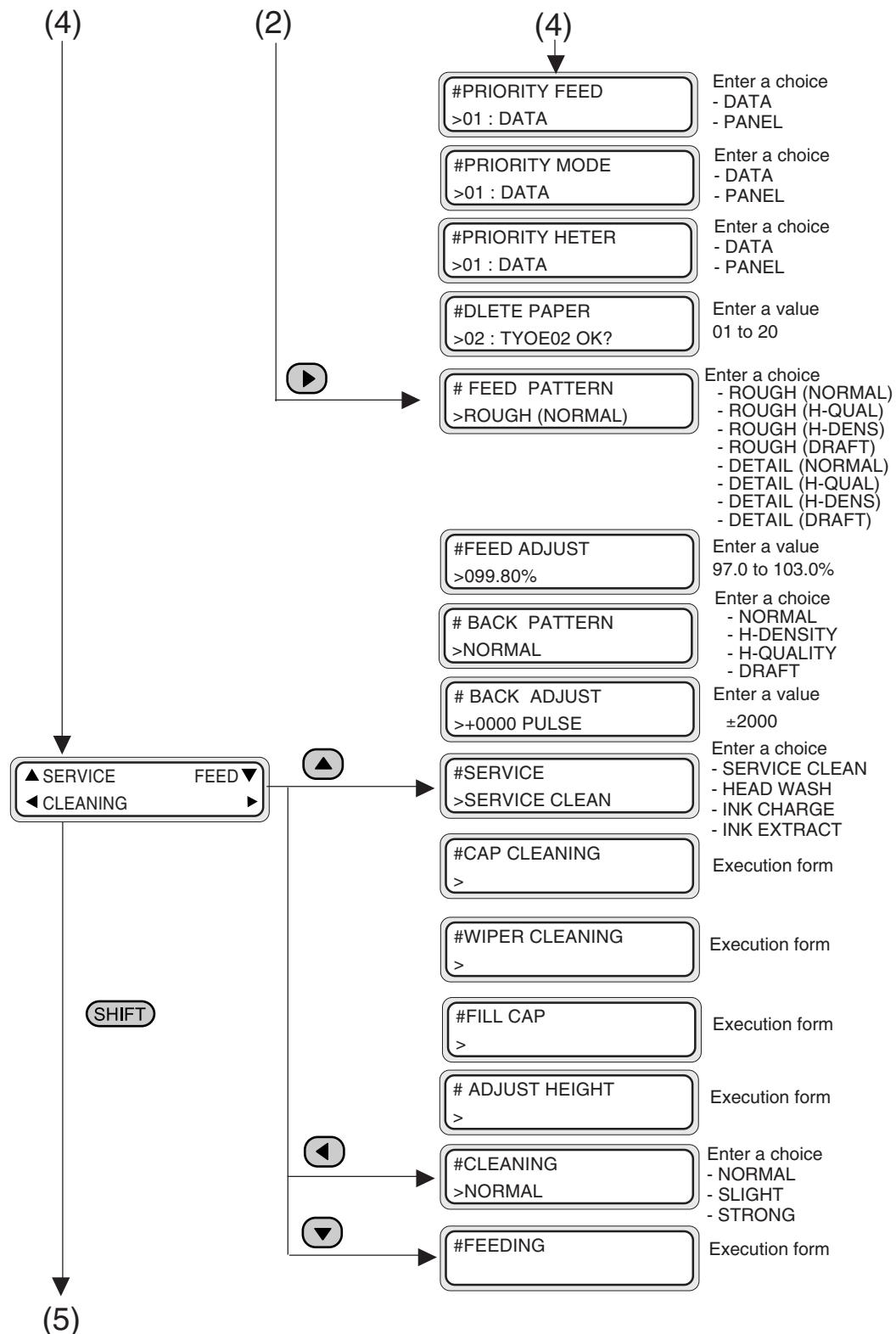
CLEANING MODE
>01: MODE 1

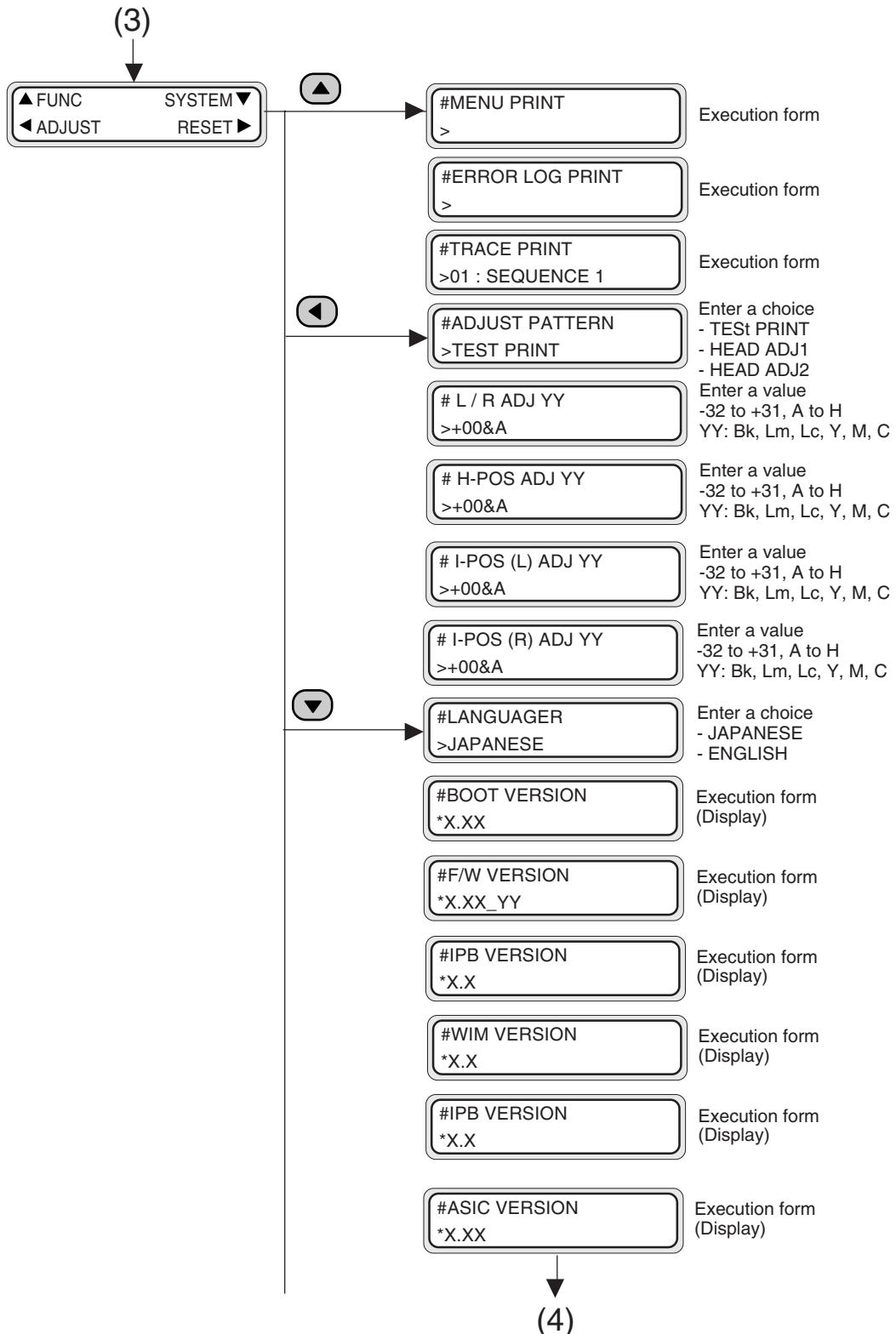
Enter a choice
- MODE 1
- MODE 2

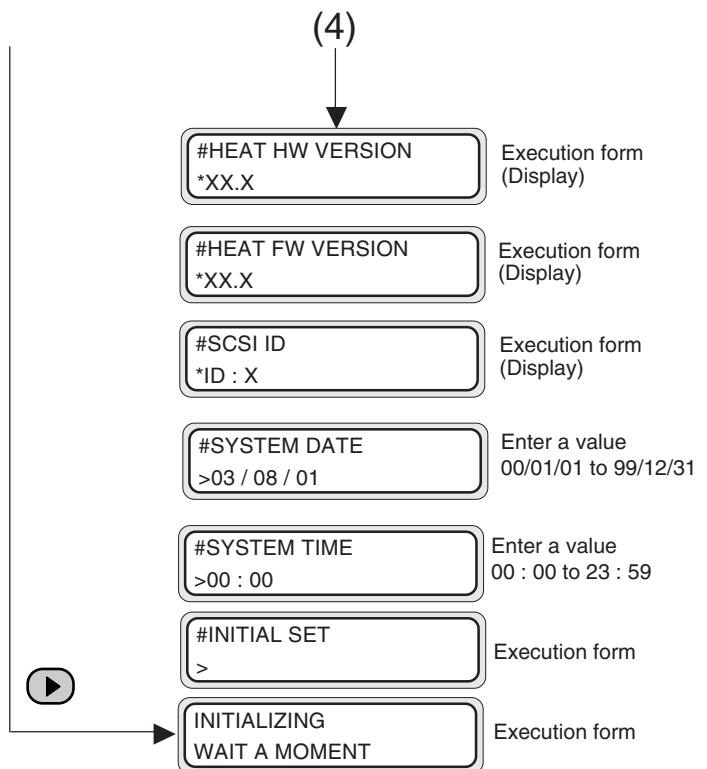
BACK ADJUST
>01: +0000 PULSE

Enter a value
±2000

(4)







Basic Operations and Keys

(1) To enable menu operations:

- Enter to the offline mode.
- When the printer enters the offline mode, a menu group screen is displayed.

(2) Menu group selection:

- Select a menu group directly with , ,  and  keys.
- Switch between menu group screens with the  key.

(3) Menu selection:

- ,  keys : Change between menus at the same level.
-  key : Return to menu group selection.
-  key : Select a menu so that parameters can be changed.

(4) Parameter setting or change:

- ,  keys : Switch between parameters.
Increment or decrement a value when it is entered.
- ,  keys : Shift digit when entering a value.

(5) Parameter setting or canceling:

-  key : Set a parameter.
-  key : Cancel an input parameter value and return to the menu selection.

(6) Setting save:

- The changes in the Setup menu, System menu, and Mechanical Adj. menu are automatically saved in parameters.

(7) End of setting:

- When the  key is pressed, the printer goes back to the online mode.

Operation Procedure for Choice Input, Value Input, Execution, and Character Input

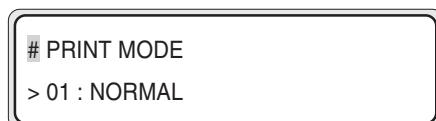
■ If a choice is input for a parameter:

An example of PRINT MODE of the ENTRY menu is given below.

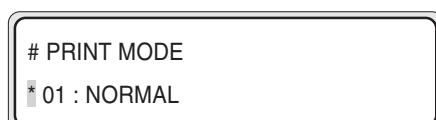
(1) Select a menu group with \blacktriangle , \blacktriangledown , \blackleftarrow , \blackrightarrow keys.
Select ENTRY menu with \blacktriangledown key.



(2) Select a sub-menu of the ENTRY menu with \blacktriangle and \blacktriangledown keys.
Select PRINT MODE.
You can return to (1) with \blackleftarrow key.



(3) Press **ENTER** key so that parameters can be changed.



(4) Select a parameter for the menu with \blacktriangle and \blacktriangledown keys.
Select 01 : FINE.



(5) Press **ENTER** key to change the parameter and return to (2).



■ If a value is input for a parameter:

The PAPER FEED ADJ menu of the ADJUST menu is given as an example.

(1) Select a menu group with , , ,  keys.
Select menu with  key.



(2) Select a sub-menu of the ADJUST menu with ,  keys.
Select PAPER FEED ADJ. menu.
You can return to (1) with  key.



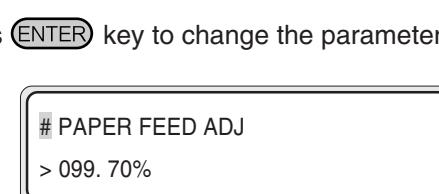
(3) Press  key so that parameters can be changed.

(4) Move to a digit to be modified with  and  keys.



(5) Modify the value by pressing the ,  keys.

(6) Press  key to change the parameter and return to (2).

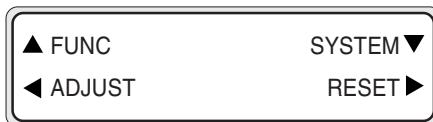


■ If a parameter is executed:

Case 1: To print

The MENU PRINT menu of the FUNC menu is given as an example.

(1) Select a menu group with \blacktriangleleft , \blacktriangleright , \blacktriangledown , \blacktriangleup keys.
Select FUNC menu with \blacktriangleup key.



(2) Select a sub-menu of the FUNC menu with \blacktriangleup and \blacktriangleright keys.
Select MENU PRINT menu.
You can return to (1) with \blacktriangleleft key.



(3) Press ENTER key.



(4) Press ENTER key to execute the function.
Press CANCEL key to return to (2) without executing the function.



(5) After execution, return to (2).

Case 2: To display only

The SCSI ID menu of the SYSTEM menu is given as an example.

(1) Select a menu group with , , ,  keys.

Select SYSTEM menu with  key.



(2) Select a sub-menu of the SYSTEM menu with  and  keys.

When the SCSI ID is selected, it is displayed.



(3) Another sub-menu of the SYSTEM menu can be selected with  and  keys.

You can return to (1) with  key.

■ If a value is character input for a parameter:

An example of NAME of the ENTRY menu is given below.

(1) Select a menu group with  ,  ,  ,  keys.

Select ENTRY menu with  key.

 INK	ENTRY 
 PAPER	F.ADJ 

(2) Select a sub-menu of the ENTRY menu with  and  keys.

Select NAME.

NAME
>01 : TYPE01

(3) Press  keys so that parameter can be changed.

#NAME
*01 : 

(4) Select a character code group by pressing the  and  keys or  and  keys.

Modify the value by pressing the  or  key.

(See “Character List” in the next page.)

NAME
*01 : 

(5) Move to a digit by pressing the  and  keys.

Then, modify the value.

#NAME
*01 : 

(6) Press **ENTER** key to determine the parameter.

C_PAPER NAME
>01 : CYPE01
*

<Character List>

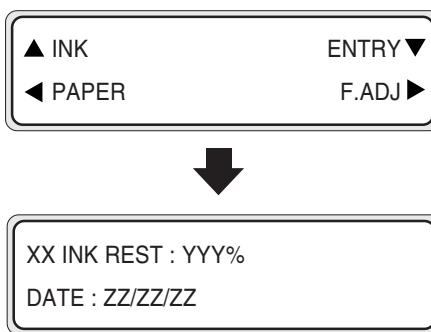
Character code group	Character
	▼ key  ▲ key
Backward (SHIFT + ▼ key)	Symbols space, !, ••••
	Numerals 0 to 9
	Alphabet • Capital letter A to Z
	Alphabet • Small letter a to z
	Katakana: ア line ア, イ, ウ, エ, オ
	Katakana: カ line カ, キ, ク, ケ, コ
	Katakana: サ line サ, シ, ス, セ, ソ
	Katakana: タ line タ, チ, ツ, テ, ト
	Katakana: ナ line ナ, ニ, ヌ, ネ, ノ
	Katakana: ハ line ハ, ヒ, フ, ヘ, ホ
	Katakana: マ line マ, ミ, ム, メ, モ
	Katakana: ャ line ャ, ヲ, ョ
	Katakana: ヲ line ヲ, リ, ル, レ, ロ
	Katakana: ワ line ワ, ヲ, シ
	Small letter katakana ア, イ, ウ, エ, オ, ャ, ヲ, ョ, ツ
	Special characters a, ä, b, ••••

Menu Operations

INK Menu

This menu is used to display ink information or replace the ink.

When the  key is pressed, information on each color ink is displayed at three-second intervals.

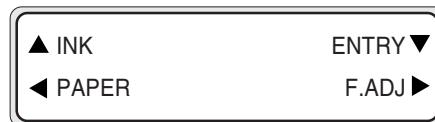


XX: Color name, such as Bk,
Lm, Lc, Y, M, and C.
YYY: Remaining amount of ink.
ZZ: Date

- (1) XX INK indicates a remaining amount of ink.
DATE indicates the manufacture date of the ink cartridge.
- (2) When the  key is pressed, you can go to the next step without waiting for three seconds.
- (3) When the  or  keys are pressed, display scrolling ends and the top menu is displayed in offline state.
- (4) When the  key is pressed, display scrolling ends and the printer is put online.
- (5) When the  key is pressed, display scrolling ends and the printer enters recovery state (ink cartridge replacement).
(See Section 2, Replacing Ink Cartridge.)

PAPER Menu

This menu is used to display media information or replace the paper. When the  key is pressed, information on media is displayed at three-second intervals.



<Paper roll>   Key



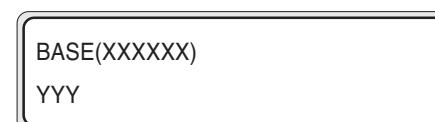
X: Paper type
Y: Paper size

<Cut sheet>



X: Paper type
Y: Paper width (mm)
Z: Paper length (mm)

<Base>



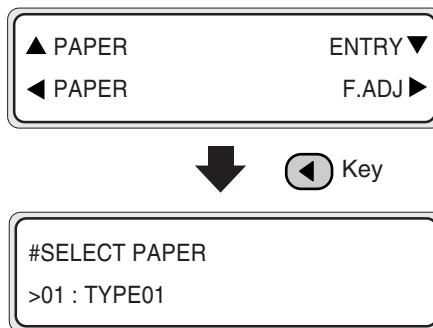
X: Paper type
Y: Paper size

- (1) When the  and  keys are pressed, display scrolling ends and the top menu is displayed in offline state.
- (2) When the  is pressed, display scrolling ends and the printer moves online state.
- (3) When the  key is pressed, display scrolling ends and the printer enters paper setting sequence.

ENTRY Menu

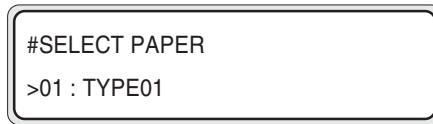
This menu is used to set up parameters for drawings.

When the  key is pressed, parameters can be set.



(1) Paper selection (SELECT PAPER)

Select a paper type number to be registered newly or revised. Twenty types (from 01 to 20) can be selected.



<Parameter (Enter a choice.)>

Paper type number: 01 to 20

(2) Paper name setting (NAME)

Set the paper name.

Six-digit characters (or symbols) can be input as the paper name.

Symbols, alphanumerals, katakanas can be used for six-digit characters.

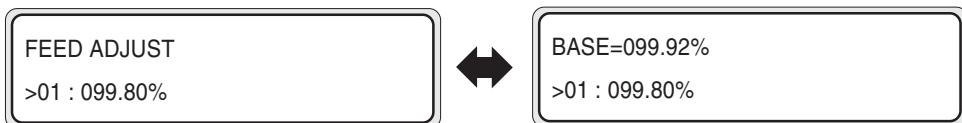


<Parameter (Enter characters)>

A six-digit character (symbols, alphanumerals, katakanas, others)

(3) Paper feed adjustment value (FEED ADJUST) (Unit: %)

Set a paper feed adjustment value.



<Parameter (Enter a value)>

XXX.XX% (97.00 to 103.00%)

(4) Scan waiting time (SCAN WAIT TIME) (Unit: second)

Set the paper scanning wait time.

SCAN WAIT TIME
>01 : 000sec

<Parameter (Enter a value)>

Input three-digit in second unit.

(5) Print mode setting (PRINT MODE)

Set a print mode.

PRINT MODE
NORMAL

<Parameter (Enter a choice)>

~~NORMAL: (4-pass)~~

~~FINE: (8-pass)~~

~~DENSITY: (8-pass)~~

~~DRAFT: (2-pass)~~

Normal	4 pass	720dpi
Fine	8 pass	720dpi
Density	8 pass	720dpi
Draft	2 pass	360dpi
Fast	4 pass	360dpi

(6) Print direction setting (DIRECTION)

Set a print direction.

#DIRECTION

>01 : BI

<Parameter (Enter a choice)>

BI: Print with dual direction.

UNI: Print with single direction.

(7) Condition pass setting (CONDITION PASS)

Selects a conditioning pass mode for the paper.

When the print waiting condition continues for a long time, the faint print or print off may be caused by the wrinkle or smudge on the edge of the paper roll due to humidity and dust.

Use this function to avoid these problems.

Set parameters according to the operational condition.

If there is no received data and the printer waits printing even though the specified time has passed, the edge of the paper roll is fed to the front of the rear cover automatically.

(If the edge of the paper roll exists in the front of the rear cover already, this action will be skipped.)

When the print data is received and print starts, the conditioning pass (the repetition of paper feeding and rewinding) is performed automatically.

Also, when the printer is turned off, the edge of the paper roll is fed to the front of the rear cover automatically before turning off. (When using the winder, the printer is turned off immediately.)

#CONDITION PASS

>01 : NONE

<Parameter (Enter a choice)>

- NONE:

The conditioning pass is not performed.

Select this parameter when performing the continuous printing with the media that is hard to be wrinkled.

When the printer is left in the waiting condition for a long time, the print off due to wrinkles may be caused.

- 30 min:

The conditioning pass is performed at every 30 minutes.

When the printer starts printing before 30 minutes interval, the condition pass is always performed at start of the printing.

Select this parameter when the printer prints in a high humidity environment frequently and the paper is extremely wrinkled.

- 1 hour:

The conditioning pass is performed at every 1 hour.

Select this parameter when the print interval is more than 1 hour and the paper is extremely wrinkled.

- 2 hours:

The conditioning pass is performed at every 2 hours.

Select this parameter when the print interval is more than 2 hours and the paper is extremely wrinkled.

- 4 hours:

The conditioning pass is performed at every 4 hours.

Select this parameter when the print interval is more than 4 hours and the paper is extremely wrinkled.

(8) Edge guard setting (EDGE GUARD)

Set whether the media edge guard is used or not.

The right and left print margins will be changed by this setting.

#EDGE GUARD
>01 : USE

<Parameter (Enter a choice)>

- USE : Set when the edge guard is used.
- NOT USE : Set when the edge guard is not used.

(9) Paper feed mode setting (PAPER FEED MODE)

Set a paper feed mode.

#PAPER FEED MODE
>01 : SEQUENCE 1

<Parameter (Enter a choice)>

- SEQUENCE 1 : Feeds the paper in the normal paper feed sequence.
- SEQUENCE 2 : Feeds the paper in the counter measure sequence for ~~paper with glue~~.

sticky/static paper [X-drive motor vibrates]

(10) Winder mode (WINDER MODE)

Set a paper winding mode.

#WINDER MODE
>01 : SLACK

<Parameter (Enter a choice)>

- SLACK : Drives the winder with the SLACK rewinding method.
- TENSION : Drives the winder with the TENSION rewinding method.

(11) Paper setting mode (PAPER SET MODE)

Detects the edge of the paper when replacing or setting the paper, and selects whether the paper should be returned to the waiting position.

When the winder is effective, the paper will not be returned to the waiting position regardless of this setting.

```
#PAPER SET MODE  
>01 : NORMAL
```

<Parameter (Enter a choice)>

- NORMAL : Detects the paper width when replacing or setting the paper, and then completes the paper setting after checking paper skew during paper feeding.
- SAVING: Detects the paper width at replacing or setting the paper and then completes the paper setting after detecting the edge of the paper during paper rewinding.

NOTE

Usually set "NORMAL" when selecting "SAVING," take care of the followings.

- Cut the edge of the paper so that the edge of the paper is parallel to the guide line and set it to the printer.
If the edge of the paper is not parallel, the print is missed on the edge of the paper and the platen is stained by ink and the paper jam is caused.
- Set the paper after checking no wrinkle on the edge of the paper.
If using the paper with a wrinkle, it causes paper jam.
- Set the paper after checking no tape or glue or the edge of the paper. If using the paper with tape or glue, it causes paper jam.

(12) Wind value setting for FAN (VACUUM)

Sets wind value for FAN.

#VACUUM
>01 : NORMAL

<Parameter (Enter a choice)>

- NORMAL: Absorbs the paper at the normal wind value.
- LOW: Absorbs the paper at the low wind value.

(13) Wait of heating setting (WAIT HEATER)

Sets whether print should wait for time that the heater temperature reaches the preset temperature.

#WAIT HEATER
>01 : WAIT

<Parameter (Enter a choice)>

- WAIT: Waits the time until the heater temperature reaches the preset temperature.
- SKIP: Starts printing even if the heater temperature does not reach the preset temperature.

(14) Initial temperature setting for the front heater (FRONT HEATER)

Sets the front heater temperature.

(Celsius)

(Fahrenheit)

#FRONT HEATER
>01 : 30C

#FRONT HEATER
>01 : 086F

<Parameter (Enter a value)>

- Range: 15 °C to 55 °C
(The heater will be OFF when "##" is set.)

(15) Initial temperature setting for the print heater (PRINT HEATER)

Sets the platen heater temperature.

(Celsius)

(Fahrenheit)

#PRINT HEATER

>01 : 40C

#PRINT HEATER

>01 : 104F

<Parameter (Enter a value)>

- Range: 15 °C to 55 °C

(The heater will be OFF when "***" is set.)

(16) Initial temperature setting for the rear heater (REAR HEATER)

Sets the rear heater temperature.

(Celsius)

(Fahrenheit)

#REAR HEATER

>01 : 50C

#REAR HEATER

>01 : 122F

<Parameter (Enter a value)>

- Range: 15 °C to 55 °C

(The heater will be OFF when "***" is set.)

Celsius or Fahrenheit display will be alternated on the heater panel.

The setting will be reflected at next powering on.



Celsius and Fahrenheit conversion equation.

$$F = (9/5) C + 32$$

$$C = (5/9) (F - 32)$$

(17) Color stripe setting (COLOR STRIPE)

Sets ON/OFF of the color stripe print.

#COLOR STRIPE

>01 : OFF

<Parameter (Enter a choice)>

- OFF: Does not print the color stripe at the origin point.

- ON: Prints the color stripe print at the origin point.

*The color stripe is printed on the test print regardless of this setting.

(18) Head action mode setting (HEAD MOTION)

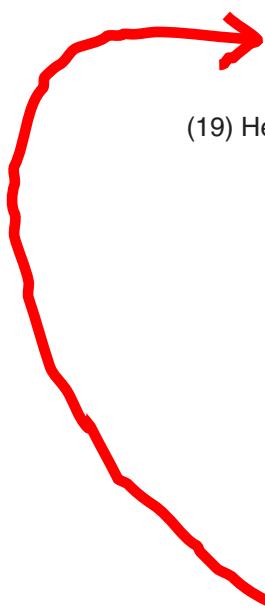
Selects a head action mode.

#HEAD MOTION

>01 : NORMAL

<Parameter (Enter a choice)>

- NORMAL: Use this usually.
- HIGHLIGHT: Use this for print gradation data.



(19) Head height setting (HEAD HEIGHT)

Selects a head height setting. This setting will be matched to the head height lever setting.

#HEAD HEIGHT

>01 : NORMAL

<Parameter (Enter a choice)>

- NORMAL: Use this usually.
- HIGH: Use this for thick media.

<0.5mm

>0.5mm

NOTE

When the low printing rate pattern is printed continuously at high temperature, print dot-off may be generated. In this case, set the head mode to HIGHLIGHT PRIORITY.

(20) Reciprocating print position (Left) adjustment value (Bk/Lm/Lc/Y/M/C)

Adjusts reciprocating print positions (Left) for all heads. (I-POS ADJ YY)

Enter an adjustment value based on the head adjustment pattern print.

#I-POS (L) ADJ YY

>01 : +00&A

YY: Ink color

Display order:

Bk -> Lm -> Lc -> Y -> M -> C

<Parameter (Enter a value)>

- Sign: +/-
- Value: -32 to +31, A to H (A=0/8, B=1/8...H=7/8)

(21) Reciprocating print position (Right) adjustment value (Bk/Lm/Lc/Y/M/C)

Adjusts reciprocating print positions (Right) for all heads. (I-POS ADJ YY)

Enter an adjustment value based on the head adjustment pattern print.

#I-POS (R) ADJ YY

>01 : +00&A

YY: Ink color

Display order:

Bk -> Lm -> Lc -> Y -> M -> C

<Parameter (Enter a value)>

- Sign: +/-

- Value: -32 to +31, A to H (A=0/8, B=1/8...H=7/8)

(22) Cleaning mode

Selects a cleaning mode to be performed automatically during print.

CLEANING MODE

>01: MODE 1

<Parameter (Enter a value)>

MODE 1: Performs cleaning automatically according to the print history record at start of the print or at end of the print.

MODE 2: Performs cleaning automatically in a certain period during print.

NOTE

- When the tension winding as the winding mode or sequence 2 as the paper feed mode is selected, the printer works at mode 1 setting even if the mode 2 is selected.
- When selecting mode 2, a joint of print will be generated because the cleaning is performed during print.
A joint can be adjusted with correction value input at "BACK ADJUS" menu.

In case a joint cannot be adjusted, use mode 1.

(23) Paper back feed adjustment (unit: pulse)

Adjusts a joint position when the image is separated due to the automatic cleaning during print.

Input a back feed adjustment value for the paper.

```
# BACK ADJUST  
>01: +0000 PULSE
```

<Parameter (Enter a value)>

- ±2000 pulses (+5 mm)
- 1 pulses=2.5 μm

(24) Paper feed adjustment value priority setting (PRIORITY FEED)

Selects a priority of the paper feed adjustment value.

```
#PRIORITY FEED  
>01 : DATA
```

<Parameter (Enter a value)>

- DATA: Gives priority to data.
- PANEL: Gives priority to the panel.

(25) Print mode priority setting (PRIORITY MODE)

Selects a priority of the print mode.

```
#PRIORITY MODE  
>01 : DATA
```

<Parameter (Enter a value)>

- DATA: Gives priority to data.
- PANEL: Gives priority to the panel.

(26) Heater mode priority setting (PRIORITY HEATER)

Selects a priority of the heater mode.

#PRIORITY HEATER

>01 : DATA

<Parameter (Enter a value)>

- DATA: Gives priority to data.
- PANEL: Gives priority to the panel.

(27) Deleting registered paper (DELETE PAPER)

Deletes a registered paper.

The registered paper from 01 to 20 can be selected.

The registered paper 01 is defined as the standard media. This cannot be deleted.

When the **ENTER** key is pressed, confirmation guidance will be displayed (See below.)

#DELETE PAPER

>01 : TYPE02

↓ **ENTER**

#DELETE PAPER

>01 : TYPE02 OK?

■ Initial values for the registered papers

Some papers will be registered at shipping.

(The parameters registered at shipping are changeable and deletable.

However, 01 (PAPER) cannot be deleted.)

The table lists the initial values for the papers registered.

	1	2	3	4	5
NAME	PAPER	GLOSSY	MATTE	BANNER	BLT_B
FEED ADJUST	(Base) +0.00%	(Base) +0.16%	(Base) +0.16%	(Base) +0.14%	(Base) +0.14%
SCAN WAIT TIME	0 sec				
PRINT MODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
DIRECTION	BI	BI	BI	BI	BI
CONDITION PASS	1 hour	1 hour	1 hour	None	None
EDGE GUARD	USE	USE	USE	USE	USE
PAPER FEED MODE	SEQUENCE1	SEQUENCE1	SEQUENCE1	SEQUENCE1	SEQUENCE1
WINDER MODE	SLACK	SLACK	SLACK	SLACK	SLACK
PAPER SET MODE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
VACUUM	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
WAIT HEATER	WAIT	WAIT	WAIT	WAIT	WAIT
FRONT HEATER	None	45° C	45° C	45° C	45° C
PRINT HEATER	None	40° C	40° C	40° C	40° C
REAR HEATER	None	45° C	45° C	45° C	45° C
COLOR STRIPE	ON	ON	ON	ON	ON
PRIORITY FEED	DATA	DATA	DATA	DATA	DATA
IPOS (L) ADJ	+00&A	+00&A	+00&A	+00&A	+00&A
IPOS (R) ADJ	+00&A	+00&A	+00&A	+00&A	+00&A
CLEANING MODE	MODE 1				
BACK ADJUST	0	0	0	0	0
PRIORITY MODE	DATA	DATA	DATA	DATA	DATA
PRIORITY HEATER	DATA	DATA	DATA	DATA	DATA

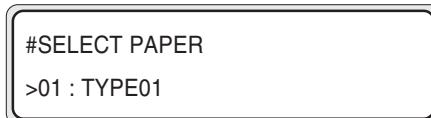
■ Example of paper registration

1. Select a paper number to be registered newly or revised.

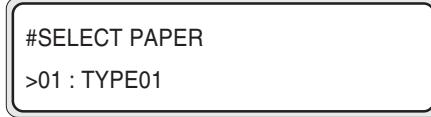
- (1) Press the  key to enter to the ENTRY menu.



- (2) Select "SELECT PAPER" menu with the  and  keys.



- (3) Press the  key to change the parameter.



- (4) Select a paper number to be registered with the  and  keys.



- (5) Press the  key to fix the paper number. The display returns to (2) display.



2. Example of parameter setting

In this example, a paper feed adjustment value will be entered.

(1) Select "FEED ADJUST" menu with the  and  keys.

#FEED ADJUST
>02 : 099.80%

(2) Press the  key and revise the parameter.

#FEED ADJUST
*02 : 099.80%

NOTE

- Determine the paper feed adjustment value by printing the paper feed adjustment pattern or according to our information.

(3) Press the  key to display the message.

(This message will be displayed at new registration only.)

#FEED ADJUST
>02 : ENTRY OK?

(4) When the  key is pressed, the paper number 02 is registered newly and "*" mark that shows the paper has already registered is displayed. The display returns to (1) display.

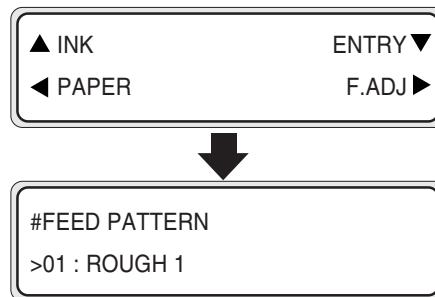
#FEED ADJUST
>02 : 099.80%

Press the  key to stop the new registration. The display returns to (1) display.

F.ADJ Menu

This menu is used to set paper feed adjustment parameters.

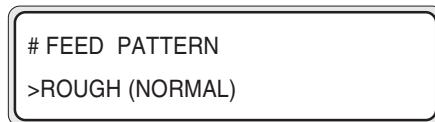
When the  key is pressed, parameters can be set.



(1) Paper feed adjustment pattern

Prints a pattern for adjusting a paper feed amount.

Press the  key during print to stop the print.



<Parameter (Enter a choice)>

- ROUGH (NORMAL):

Prints the paper feed amount adjustment pattern at every 0.2 % step between 99.0 to 101.0 %.

(Prints with standard and 4-pass mode)

- ROUGH (H-QUAL):

Prints the paper feed amount adjustment pattern at every 0.2 % step between 99.0 to 101.0 %.

(Prints with high quality and 8-pass mode)

- ROUGH (H-DENS):

Prints the paper feed amount adjustment pattern at every 0.2 % step between 99.0 to 101.0 %.

(Prints with high density and 8-pass mode)

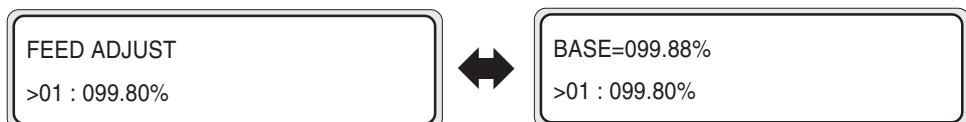
- ROUGH (DRAFT):
Prints the paper feed amount adjustment pattern at every 0.2 % step between 99.0 to 101.0 %.
(Prints with draft and 2-pass mode)
- DETAIL (NORMAL):
Prints the paper feed amount adjustment pattern at 0.04 % step between the current setting value $\pm 0.08\%$.
(Prints with standard and 4-pass mode)
- DETAIL (H-QUAL):
Prints the paper feed amount adjustment pattern at 0.04 % step between the current setting value $\pm 0.08\%$.
(Prints with high quality and 8-pass mode)
- DETAIL (H-DENS):
Prints the paper feed amount adjustment pattern at 0.04 % step between the current setting value $\pm 0.08\%$.
(Prints with high density and 8-pass mode)
- DETAIL (DRAFT):
Prints the paper feed amount adjustment pattern at 0.04 % step between the current setting value $\pm 0.08\%$.
(Prints with draft and 2-pass mode)

(2) Paper feed adjustment correction value setting (FEED ADJUST)

Sets the paper feed adjustment correction value.

Enter a correction value according to the paper feed adjustment pattern print.

The BASE value is displayed alternately on the 1st line.



<Parameter (Enter a value)>

xxx.xx% (97.00 to 103.00)

(3) Back feed adjustment pattern

Prints a pattern for adjusting a paper back feed amount.

```
# BACK PATTERN
```

```
>NORMAL
```

<Parameter (Enter a value)>

- NORMAL:

Prints the pattern with standard and 4-pass mode.

- H-QUALITY:

Prints the pattern with high quality and 8-pass mode.

- H-DENSITY:

Prints the pattern with high density and 8-pass mode.

- DRAFT:

Prints the pattern with 2-pass mode.

- FAST: Prints the pattern with 4 pass mode.

(4) Paper back feed correction value (unit: pulse)

Input a correction value of the paper back feed based on the result of the back pattern.

```
# BACK ADJUST
```

```
>+0000 PULSE
```

<Parameter (Enter a value)>

±2000 pulse (±5 mm)

white line = +

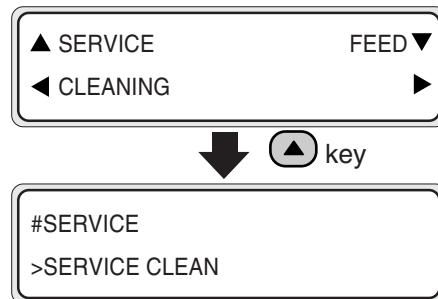
1 pulse=2.5μm

overlap = -

SERVICE Menu

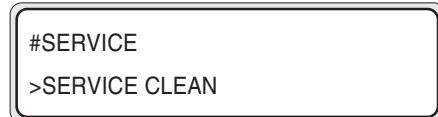
This menu is used to maintain the cap and the wiper as well as to clean the ink path.

When the  key is pressed, the service menu will be operable.



(1) Service cleaning (SERVICE)

Selects a service cleaning parameter.



<Parameter (Enter a choice)>

- SERVICE CLEAN

Use this parameter to clean the head and ink path with the maintenance liquid while the ink is charged into the printer, and then recharge the maintenance liquid in the printer to ensure long-term storage.

Six maintenance liquid cartridges and six dummy cartridges are mandatory.

- HEAD WASH

Use this parameter to clean the head with the cleaning liquid with strong washing power) at cleaning or service cleaning after long-term time storage.

Six cleaning liquid cartridges and six dummy cartridges are mandatory.

- INK CHARGE

Use this parameter when charging the ink in the printer.

(2) Cap cleaning (CAP CLEANING)

Moves the print head carriage to the wiper position so that you can clean the cap unit manually.

```
#CAP CLEANING  
>
```

<Parameter (Execution form)>

None

(3) Wiper cleaning (WIPER CLEANING)

The wiper blade is lifted so that you can clean the wiper blade manually.

```
#WIPER CLEANING  
>
```

<Parameter (Execution form)>

None

(4) Filling ink to the cap (FILL CAP)

Fills the ink into the cap and soaks the head (nozzle surface) into the ink for a while to remove the nozzle clogging.

Use this menu when the print-off cannot be fixed by cleaning repeatedly.

```
#FILL CAP  
>
```

<Parameter (Execution form)>

None

NOTE

- Always perform the cleaning (normal) after filling cap action.
- If the print off cannot be corrected even leaving the printer for 24 hours, contact our service centers.

(5) Head height

Use this at head height adjustment.

The cap is opened after performing this operation.

HEAD HEIGHT

>

<Parameter (Execution form)>

None

ADJUST HEIGHT

>OK



ADJUST HEIGHT

>EXECUTING



OPEN REAR COVER

ADJUST HEIGHT

CLEANING Menu

This menu is used to clean the head of the printer.

When the  key is pressed, the cleaning menu will be operable.



  key



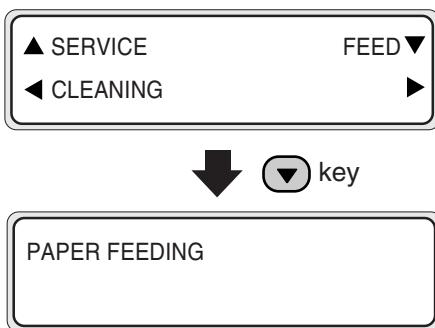
<Parameter (Enter a choice)>

- NORMAL: Cleans the head normally.
- SLIGHT: Cleans the head slightly.
- STRONG: Cleans the head strongly.

See **Section 2**, Head Cleaning for details.

FEED Menu

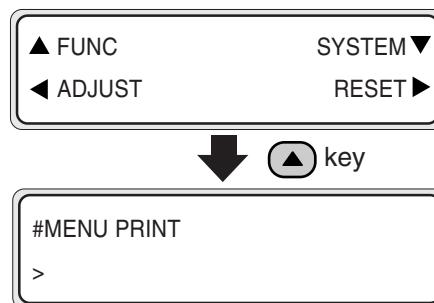
While the  key is held down, the currently selected paper roll is fed. (If a cut sheet is used, it is discharged.)
A feeding message appears on the LCD.



When the  key is released, paper feeding stops and the top menu appears on the LCD in offline mode.

FUNC Menu

This menu is used to execute functions provided for the printer.
When the  key is pressed, functions can be executed.



(1) Menu print (MENU PRINT)

Prints information on the unit and panel settings.



<Parameter (execution form)>

None

(2) Error log information print (ERROR LOG PRINT)

Prints error log information saved in the printer.



<Parameter (execution form)>

None

(3) SCSI trace information print (TRACE PRINT)

Prints SCSI protocol trace data. It is printed only when the SCSI trace is set to ON.



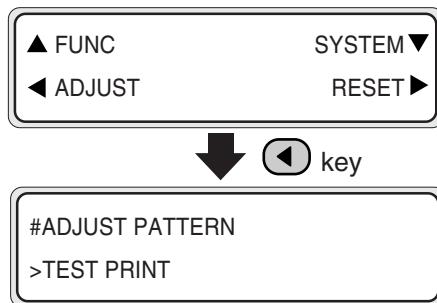
<Parameter (execution form)>

None

ADJUST Menu

This menu is used to set mechanical adjustment parameters.

When the  key is pressed, mechanical adjustment parameters can be set.



(1) Adjustment pattern print (ADJUST PATTERN)

Prints the adjustment pattern for adjusting the printer mechanically and electrically.

When the  key is pressed during printing, the print can be stopped.



<Parameter (Enter a choices)>

- TEST PRINT: Prints a block pattern with black and other color.
- HEAD ADJ 1: Prints a head adjustment pattern.
- HEAD ADJ 2: Prints a pattern for checking the head adjustment.

(2) Nozzle jetting position adjustment (Bk/Lm/Lc/Y/M/C) (L/R ADJ YY)

Adjusts the jetting position of nozzle.

Enter an adjustment value according to the head adjustment pattern.

#L/R ADJ YY

>+00&A

YY: Ink color

Display order:

Bk -> Lm -> Lc -> Y -> M -> C

<Parameter (Enter a value)>

- Sign: +/-

- Value: -32 to +31, A to H (A=0/8, B=1/8...H=7/8)

(3) Head position adjustment (Lm/Lc/Y/M/C) (H-POS ADJ YY)

Adjusts the head position for the scanning direction.

Enter an adjustment value according to the head adjustment pattern.

#H-POS ADJ YY

>+00&A

YY: Ink color

Display order:

Bk -> Lm -> Lc -> Y -> M -> C

<Parameter (Enter a value)>

- Sign: +/-

- Value: -32 to +31, A to H (A=0/8, B=1/8...H=7/8)

(4) Reciprocating position (Left) adjustment (Bk/Lm/Lc/Y/M/C)

Adjusts the head reciprocating position (Left).

Enter an adjustment value according to the head adjustment pattern.

#I-POS (L) ADJ YY

>+00&A

YY: Ink color

Display order:

Bk -> Lm -> Lc -> Y -> M -> C

<Parameter (Enter a value)>

- Sign: +/-

- Value: -32 to +31, A to H (A=0/8, B=1/8...H=7/8)

(5) Reciplocating position (Reight) adjustment (Bk/Lm/Lc/Y/M/C)

Adjusts the head reciplocating position (Reight).

Enter an adjustment value according to the head adjustment pattern.

#I-POS (R) ADJ YY

>+00&A

YY: Ink color

Display order:

Bk -> Lm -> Lc -> Y -> M -> C

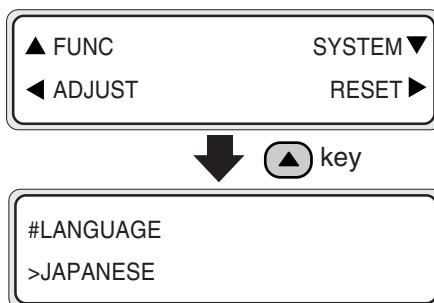
<Parameter (Enter a value)>

- Sign: +/-
- Value:-32 to +31, A to H (A=0/8, B=1/8...H=7/8)

SYSTEM Menu

This menu is used to set or display system parameters.

When the  key is pressed, system parameters can be set.



(1) Language for LCD messages (LANGUAGE) [Initial value: ENGLISH]

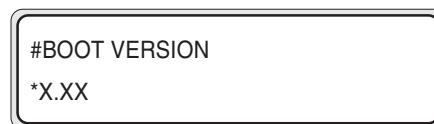
Sets Japanese or English for messages displayed on the LCD.

<Parameter (Enter a choice.)>

- ENGLISH : Displays English messages.
- JAPANESE : Displays Japanese messages.

(2) BOOT version display (BOOT VERSION)

Displays the BOOT version.



<Parameter (Execution form)>

None

(3) F/W version display (F/W VERSION)

Displays the engine-SCSI firmware version.



<Parameter (Execution form)>

None

(4) Engine controller board version display (IPB VERSION)

Displays the version number of the Engine controller board (IPB).

IPB VERSION
* X.X

X: Version number

<Parameter (Execution form)>

None

(5) SCSI board version display (WIM VERSION)

Displays the ICB board version.

WIM VERSION
* X.X

X: Version number

<Parameter (Execution form)>

None

(6) ICB board version display (ICB VERSION)

Displays the version number of the SCSI board (WIM).

#ICB VERSION
*X.XX

X: Version number

<Parameter (Execution form)>

None

(7) ASIC version display (ASIC VERSION)

Displays the ASIC version.

#ASIC VERSION
*X.XX

X: Version number

<Parameter (Execution form)>

None

(8) Heater H/W version display

Displays the heater hardware version.

```
#HEART HW VERSION  
*XX.X
```

X: Version number

<Parameter (Execution form)>

None

(9) Heater F/W version display

Displays the heater firmware version.

If the heater cannot be recognized, "--." is displayed.

```
#HEAT FW VERSION  
*XX.X
```

X: Version number

<Parameter (Execution form)>

None

(10) SCSI ID number display (SCSI ID)

Displays the SCSI ID number set with the rotary switch on the SCSI board.

```
# SCSI ID  
* ID : X
```

X: ID number

<Parameter (Execution form)>

None

(11) System date setting (SYSTEM DATE)

Sets system date used in the unit.

```
#SYSTEM DATE  
>03 / 08 / 01
```

<Parameter (Enter a value)>

00/01/01 to 99/12/31

(12) System time setting (SYSTEM TIME)

Sets system time used in the unit.

#SYSTEM TIME

>03 / 08 / 01

<Parameter (Enter a value)>

00 : 00 to 23 : 59

(13) Factory setting (INITIAL SET)

Sets all parameter values to factory settings.

#INITIAL SET

>

<Parameter (Execution form)>

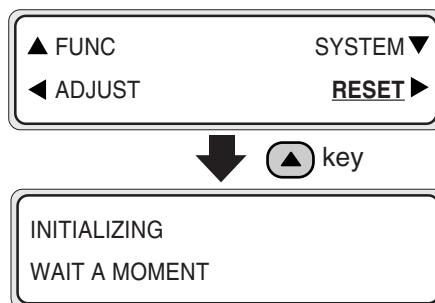
None

RESET Menu

This menu is used to reset the printer.

When the  key is pressed, the reset function is executed.

An initializing message appears on the LCD.



After resetting, the printer goes online.

Section 4 Heater Controller Operation

This section describes temperature control, LCD displays, parameter setup mode operations, and error messages of the heater controller.

Contents of This Section

Temperature Control

LDC Display

Parameter Setup Mode

Error Messages

Temperature Control

The following are three conditions for heater control.

(1) Preset temperature maintaining condition

Function: To heat the paper for reduction of ink dry time, improvement of ink fixing, and paper wrinkles protection.

Status: Status of maintaining the heater temperature at preset temperature.

Conditions:

- (1) In case the heater is turned ON on the heater control panel and the heater ON command is received from the engine control board.
- (2) In case the status is the same as the (1)'s and the status until the specified delay time after receiving the heater OFF command.
- (3) In case of heater test.

(2) Standby temperature maintaining condition

Function: To shorten time reaching the preset temperature at print start.

Status: Status of maintaining the heater temperature at the specified standby temperature (35 °C) for all heaters.

When the preset temperature is lower than the specified stand by temperature (35 °C), the printer maintains the preset temperature.

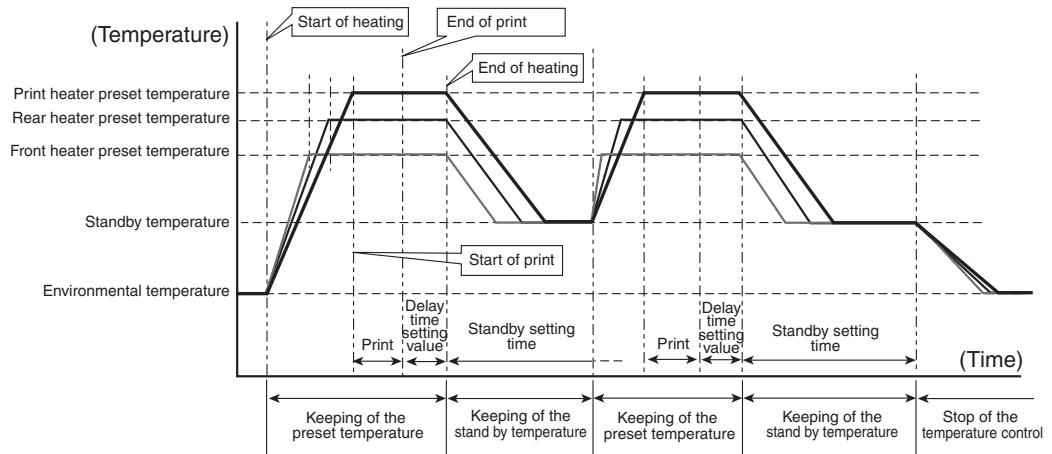
Condition: In case of time specified as the standby time after completion of the preset temperature maintaining condition.

(3) Temperature Control Stop Condition

Function: To protect unnecessary current consumption, to protect paper damage due to high temperature, and to protect accident such as a burn when the printer does not print.

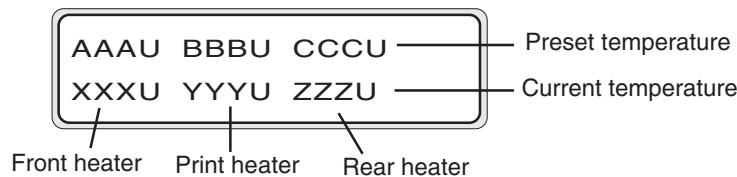
Status: Status of reaching the environmental temperature slowly.

Condition: In case of conditions other than preset temperature maintaining condition and standby temperature maintaining condition.



LDC Display

(1) Display in normal mode



Display: (AAA to CCC, YYY to ZZZ) Temperature unit: (U)

Heater	Setup temperature	Current temperature	C	Celsius
FRONT	AAA	XXX	F	Fahrenheit
PRINT	BBB	YYY		
REA	CCC	ZZZ		

- Preset temperature display
When using celsius display, top needs a space and temperature is displayed by two digits at 0 °C or more.
When using celsius display, top is displayed as “ - ” and temperature is displayed as “- XX” at less the 0 °C.
When using fahrenheit display, the temperature is displayed by three digits.
(99 fahrenheit or less temperature is displayed with space ;plus 2 digits.)
- Display renewal period
The temperature is measured at every 5 second and renewed.

(2) Display at exiting of the heater



When the current is flowed to the heater, the current temperature unit display C or F is displayed with “+” in the place of unit display.

The temperature unit is displayed at completion of exiting the heater.
The above display shows the condition that the front heater is exiting.

(3) Display at heater OFF

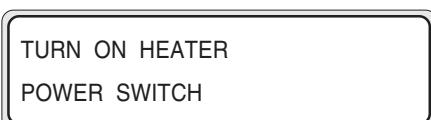
“OFF” is displayed in the setup temperature display area of the heater turned OFF.

The temperature unit of the heater turned OFF is not displayed.
The current temperature area is displayed as it is.



(4) Display when heater AC power is turned OFF

“TURN ON HEATER POWER SWITCH” message is displayed on the LCD.



Parameter Setup Mode

This mode is used when the operator sets the heater control system parameters.

(1) Setup items and parameters

The setup items and parameters are listed in the table below.

No.	Item	Item Display (upper line)	Parameters Display (lower line)	Description	Initial value
1	Temperature unit	UNIT	CELSIUS FAHRENHEIT	-	CELSIUS
2	Heat suspending time after printing	DELAY TIME	00 to 30 MINUTE	UNIT: minute	05 MINUTES
3	Standby heating time after completion of DELAY TIME	STANDBY TIME	0, 30, 60, 90, 120, ENDLESS	Unit: minutes	30
4	Version display	VERSION	FW=vv.r HW=vv.r	Display only	-
5	Diagnostics	DIAGNOSTICS	NO, YES	NO: Does not perform the diagnostics. YES: Performs the diagnostics.	NO
6	Display language	LANGUAGE	ENGLISH JAPANESE	-	ENGLISH
7	Exit of setup mode	EXIT	YES, NO	YES: Exits from the parameter mode. NO: Does not exit from the parameter mode.	YES

*1 Display only, ON/OFF key is ignored.

(2) Entering the parameter setup mode

Press the ON/OFF key,  key, and  key on the heater control panel at the same time to enter to the parameter setup mode.

The 1st setup item in the parameter setup mode will be displayed.

UNIT
* CELSIUS

Note: # will be blinked.

(3) Moving the setup item

Select a setup item you desire with the  and  keys on the heater control panel.

Press the  key on the heater control panel to move to the next (lower) setup item.

When pressing  key on the heater control panel at the last setup item, the (See, (1) setup items and parameters)

Press the  key on the heater control panel to move to the previous (upper) item.

(See (1) Setup items and parameters))

(4) Selecting the setup item

When the setup item you want to set a parameter is displayed, press the ON/OFF key on the heater control panel to enter the setup item.

(Example) Temperature unit setting.

UNIT
* CELSIUS

Note: - # will be returned to normal display.

- * shows blinking.

(5) Selecting a setting value

Selects a setting value with  and  keys on the heater control panel.

Press the  key on the heater control panel on the temperature unit setting screen.

UNIT
* FAHRENHEIT

Note: - * shows blinking

Press the  key on the heater control panel to move to the previous (upper) setup item.

Press the  key on the heater control panel to move to the next (lower) setup item.

(6) Deciding the setting value.

Display the setting value you desire on the 2nd line.

Press the ON/OFF key on the heater control panel to determine the setting value.

The display returns to the setup item setting screen.



UNIT
* FAHRENHEIT

Note: - # shows blinking

When the setting value you don't desire is displayed on the 2nd line, press the ON/OFF key on the heater control panel to cancel the setting value and return to the setup item selection screen.

(7) Exiting from the parameter setting mode.

Move to the last setup item, EXIT menu.



EXIT
* YES

Note: - # shows blinking



Press the ON/OFF key on the heater control panel.

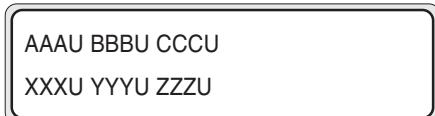


EXIT
* YES

Note: - * shows blinking



Press the ON/OFF key on the heater control panel.



AAAU BBBU CCCU
XXXU YYYYU ZZZU

Error Messages

When the following error messages are displayed on the heater control panel, contact our service centers.

<System error>

ERROR H01
SYSTEM ERROR

<The relay board cannot be detected>

ERROR H02
PLY BOARD ERR

<Front heater thermistor temperature error> (-10 °C or less, 70 °C or more)

ERROR H03
F TEMP ERR

<Rear heater thermistor temperature error> (-10 °C or less, 70 °C or more)

ERROR H04
R TEMP ERR

<Print heater thermistor temperature error> (-10 °C or less, 70 °C or more)

ERROR H05
F TEMP ERR

<Front heater thermistor cannot reach the preset temperature even after 15 minutes>

ERROR H06
F TEMP ERR

<Rear heater thermistor cannot reach the preset temperature even after 15 minutes.>

ERROR H07
R TEMPERR

<Print heater thermistor cannot reach the preset temperature even after 15 minutes.>

ERROR H08
P TEMPERR

<Switch test error occurs in the diagnostics >

ERROR H09
SWITCH ERROR

<Zero cross error occurs in the diagnostics.>

ERROR H10
ZERO CROSS ERROR

Section 5 Troubleshooting

This section describes troubleshooting for the printer. If the problem cannot be solved, contact your dealer or our service center.

Contents of This Section

Troubleshooting

Clearing Paper Jams

When an Error Message Appears

 Service Call Errors

 Communication Errors

 Operator Call Errors

When the Printer Fails to Work Correctly

When a Print Error Occurs

When There is an Abnormal Sound

Troubleshooting

Before deciding that there is a serious problem with the printer, check the following items.

■ Items to be checked

Symptom	Items to be checked	Corrective measures
No powering	Power cable connection	Plug the power cable into the outlet correctly.
	Power supply to the outlet	Supply the power to the outlet.
	Power switch ON/OFF	Turn the power switch ON. See Section 2, Turning the Power ON/OFF.
The paper guide is not heated even when the heater is turned ON.	Printer status	The paper guide is heated during printing. Be sure the paper guide is heated by printing the test pattern.
	Heater control panel	Press the ON key of the heater (FRONT/PRINT/REAR) you desire again and then be sure the paper guide is heated by printing the test pattern.
The printer fails to start or operate correctly	ERROR lamp and message on the LCD	Take appropriate measures according to the error message. See Section 5, When an Error Message Appears.
Cannot print	Interface cable connection	Connect the interface cable correctly. See Section 2, Turning the Power ON/OFF.
	ERROR lamp and message on the LCD	Take appropriate measures according to the error message. See Section 5, When an Error Message Appears.
	ERROR lamp OFF	Print nozzle adjustment pattern. See Section 3, Mechanical Adjustment Menu.
The transmitted data is not processed immediately	DATA lamp (flashing?)	Check the communication conditions to the computer.
Poor print quality	Paper type	Use our recommended paper. See Appendix, Consumables.
	Ink type	Use our recommended ink. See Appendix, Consumables.
	Ink head cleaning	Clean the ink head. See Section 2, Head Cleaning.
Paper jams occur frequently	Paper type	Check whether the paper type setting matches the type of the loaded paper. See Section 2, Installing Paper Roll in the Printer and Removing the paper roll from the Printer. Use our recommended paper. See Appendix, Consumables.
	Paper setting	Set the paper correctly. See Section 2, Replacing the Paper Roll.
	Check whether there is any foreign material in the carriage path or the paper path.	Remove any foreign material. See Section 5, Clearing Paper Jams.
Print is slow	Operational temperature	Use the printer in 20 to 25 ° C temperature.

Clearing Paper Jam

Clear paper jams according to a guidance message displayed on the LCD.

1 A guidance message appears on the LCD.



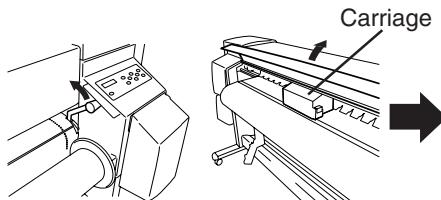
X: Types of paper jam

1: Paper jam 1

2: Paper jam 2

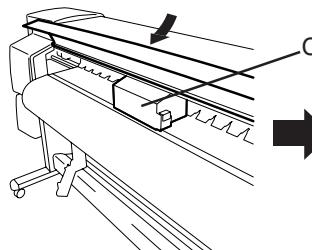
See "When an Error Message Appears".

2 Open the lever and rear cover.



REMOVE PAPER
CLOSE REAR COVER

3 Remove the jammed paper, check there is no obstacles in the carriage path and the paper transporting path, and close the rear cover.



CARRIAGE MOVING
WAIT A MOMENT

4 The carriage will move to its home position.

5 Set the paper according to the Installing Paper Roll in the Printer and Removing the Paper Roll from the Printer. (See pages 2-12, 2-18)

When an Error Message Appears

If the ERROR lamp lights, check the message to be displayed on the LCD.

There are four types of error messages.

- **Service call errors:**

Operator unrecoverable errors, such as H/W, S/W failure.

Contact our service centers.

- **Communication errors:**

Communication protocol errors.

Take appropriate measures according to the error code or message.

- **Operator call errors:**

The operator can correct these errors.

Take appropriate measures according to the message.

The error messages are as follows. Take appropriate measure according to the error message.



If a communication error or a data error occurs, the ERROR lamp does not light. An error message appears on the LCD and disappears when the next operation is performed.

Service Call Errors



If any of the following service call error messages appears, turn the power switch off and then on again. This may release the error.

<POC error>

INITIALIZING

E E n n n

nnnn: Error code

Description: An unrecoverable error has occurred in the engine section.

(This error message appears when an error is detected during self-diagnosis after the power is turned on.)

Measure : Contact your dealer or our service centers (The error code identified on the LCD is needed).

<Engine error>

ENGINE ERROR nnnn
POWER OFF/ON

nnnn: Error code

Description: An unrecoverable error has occurred in the network controller section. (H/W failure)

Measure : Contact your dealer or our service centers (The error code identified on the LCD is needed) .

<System error>

F_es:nnnn
POWER OFF/ON

nnnn: Error code

Description: An unrecoverable error has occurred. (F/W failure)

Measure : Contact your dealer or our service centers (The error code identified on the LCD is needed) .

Communication Errors

PRINT READY
W SCSI ERROR nnn

nnn: Error code
001: Parity error
002: Bus timeout error

Description: The conditions or protocol for communication with the computer is incorrect.

Measure : (1) Check the SCSI cable connection and terminator switch.
(2) Set the host SCSI parity bit generation setting to ON.
(3) Check the host SCSI driver setting.

Operator Call Errors

The following errors can be corrected by the operator.

(Ink cartridge)

OPEN X INKCOVER

CHANGE YY INK

X: L (left) /R (Right)

YY: Y, M, C, Bk, Lm, Lc

Description: There is no ink.

Measure : Take appropriate measures according to the message.

=> Section 2 Basic Operations (Ink Cartridge Replacement)

OPEN X INKCOVER

Z

CHECK YY INK

X: L (left) /R (Right)

YY: Y, M, C, Bk, Lm, Lc

Z: Error code (1 to 6)

Description: An ink cartridge error has occurred.

Measure : Take appropriate measures according to the message.

=> Section 2 Basic Operations (Ink Cartridge Replacement)

OPEN X INKCOVER

X: L (left) /R (Right)

SET YY INK

YY: Y, M, C, Bk, Lm, Lc

Description: No ink cartridge is installed.

Measure : Take appropriate measures according to the message.

=> Section 2 Basic Operations (Ink Cartridge Replacement)

INKCOVER IS OPEN

X: L (left) /R (Right)

CLOSE X INKCOVER

Description: The ink cover is open.

Measure : Take appropriate measures according to the message.

- The ink LED flashes.

Description: Ink is running out. (Warning)

Measure : Prepare a new ink cartridge.

(Waste ink bottle)

WASTE INK FULL
CHANGE BOTTLE

Description: The waste ink bottle is full.

Measure : Take appropriate measures according to the message.
=> Section 2 Basic Operations (Waste Ink Bottle Replacement)

BOTTLE ISN'T SET
SET BOTTLE

Description: No waste ink bottle is installed.

Measure : Take appropriate measures according to the message.
=> Section 2 Basic Operations (Waste Ink Bottle Replacement)

(Paper jam)

LIFT LEVER &
OPEN REAR COVER

1

Description: Paper jam (1) occurs when the carriage cannot be driven due to obstacles in carriage path or paper feed path.

Measure : Take appropriate measures according to the message.
If paper jam (1) occurs frequently even when no paper jams or there is no obstruction in the carriage path or paper transfer route, please contact our service center.
=> Section 5 Troubleshooting (Clearing Paper Jam)

LIFT LEVER &
OPEN REAR COVER

2

Description: Paper jam (2) occurs when paper is not detected correctly due to wrong selection of paper roll or cut sheet or use of cut sheet with an irregular size.

Measure : Take appropriate measures according to the message.
Also, check setting parameters.
=> Section 5 Troubleshooting (Clearing Paper Jam)

(Paper)

LIFT LEVER
SET PAPER

Description: Paper runs out.

Measure : Set new paper.

=> Section 2 Basic Operations (Paper Replacement)

LIFT LEVER
CHECK PAPER

Description: Paper with an invalid size (less than 297 mm width or 64 inch width or more) is set.

Measure : Set paper with a correct size.

=> Section 2 Basic Operations (Paper Replacement)

LIFT LEVER
SET PAPER

Description: Paper skews.

Measure : Set paper correctly.

Ink may be attached to the platen according to skew conditions. Wipe off ink on the platen.

=> Section 2 Basic Operations (Paper Replacement)

SET PAPER
PUSH DOWN LEVER

Description: The lever is in the up-position.

Measure : Set paper according to the message.

(Others)

CLOSE REAR COVER

Description: The rear cover is opened.

Measure : Take appropriate measures according to the message.

HEAD TEMP. ERROR

WAIT A MOMENT

Description: The head temperature is out of the operating temperature range.

Measure : Use it within the operating temperature range. Leave the printer for a while until the head temperature falls within the range.

ENV. TEMP. ERROR

CHANGE CONDITION

Description: The ambient temperature is not within the operating temperature range for the printer.

Measure : Use it within the operating temperature range (15 °C to 30 °C).

When the Printer Fails to Work Correctly

This section describes what to do when the printer fails to work correctly. Take appropriate measures according to the symptoms.

■ Measures to be taken when the printer malfunctions

Problem	Possible cause	Corrective measure
A no-ink message is displayed even when there is enough ink.	The ink bottle is not installed correctly.	Open the ink cover and check whether the joint is correctly inserted into the ink bottle.

When a Print Error Occurs

This section explains how to solve print quality problems. Take appropriate measures according to the symptoms.

■ Measures to solve print quality problems when a print error occurs

Symptom	Possible cause	Corrective measure
A blank sheet of paper is output or the printed drawing is faded.	Blank data is transmitted.	Check print data.
	The environmental conditions do not meet the printer specifications.	Use the printer in the specified environmental conditions (temperature and humidity). (See "Section 1, Environmental Conditions".)
	The paper is set incorrectly.	Check the paper settings.
Parts of a drawing are missing or the print is unclear.	Foreign objects are attached to the head.	Clean the head from the CLEANING menu.
	The low printing ratio pattern is printed continuously at high temperature environment.	Set the head mode to HIGHLIGHT PRIORITY.
The print is blurred.	The paper is loaded upside down.	Check whether the paper is loaded correctly.
	The paper is set incorrectly.	Check the paper settings.
	The media edge guard or FAN positioning bar is not set correctly	Set than correctly.
The print is stained.	The leading edge of the paper is curled.	Check whether the leading edge of the paper is curled. If it is curled, cut the leading edge.
	The paper is slightly folded or wrinkled.	If it is wrinkled, feed the paper and cut off the wrinkled part of the paper.
	The platen is stained.	Clean the platen, referring to "Section 2, Inspecion & Maintenance".
Parts of a drawing are missing at print start.	Environment temperature.	Use the printer in the specified environmental conditions.
Parts of a drawing are missing even when the cleaning is performed repeatedly.	The nozzle is clogged.	Perform the fill cap operation.
Poor print cannot be improved even when the cleaning is performed.	The cap or wiper is stained.	Be sure whether the cap and wiper are stained. If they are stained, clean them.

When There Is an Abnormal Sound

If an abnormal sound is heard, contact your dealer or an SIIT service center.

Appendix

This Appendix shows the basic specifications, components, and Celsius and fahrenheit conversion list.

Contents of This Section

Basic Specifications

Printer Specifications

Options/Consumables

Options

Consumables

Celsius and Fahrenheit Coversion List

Basic Specifications

Printer Specifications

■ Basic printer specifications

Item	Specification / Function
Recording method	Piezo-type color ink-jet printing
Resolution	720 dpi x 720 dpi
Recording speed	About four minutes / A0 with 4 pass printing. (Changes according to surrounding temperature and head temperature)
Paper feed/delivery direction	Front paper supply, Rear paper delivery
Paper type	Vinyl chloride, Tarpolin
Paper width	Maximum 64 inch
Ink cartridge	Six colors (black, cyan, magenta, yellow, light magenta, light cyan) 1000 ml ink bottles
Noise	Standby: 45 dB(A) or less Operating: 60 dB(A) or less (Continuous sound)
Heat output	Printer: 720000J/H or less, Heater: 5148000J/H or less
Maximum print guaranteed range	Area excluding top, bottom margins (5 mm) and right and left margins (5 mm) (When using the paper edge guard, right and left margins will be 10 mm.)
Power supply voltage	100 to 240 VAC
Frequency	50/60 Hz ±1 Hz
Power consumption	Printer: 200 W or less (at operating) Heater: 1440 W or less (at operating)
External dimensions	2525 mm (W) x 785 mm (D) x 1195 mm (H) ±10 mm
Weight	230 kg or less (excluding paper roll and ink)
Operating temperature/humidity range	15 to 30 ° C/30% to 70% RH (No condensing)
Non-operating temperature/humidity range	5 to 35 ° C/10% to 80% RH or less (No condensing)
Installation space	3325 mm (W) x 2785 mm (D) x 1700 mm (H)
Maintenance space	3325 mm (W) x 2785 mm (D) x 1700 mm (H)

Options/Consumables

Options

■ Options

Name	Item number	Quantity	Remarks
Dryer 64	IP-260	1	Drys up the media.
	IP-263	1	Drys up the media. For North America.
Roll Cover 64	IP-261	1	Protects paper roll from dust.
Exhaust Attachment	IP-262	1	Mounts an exhaust gas pipe to the printer or the dryer.
PS RIP (PhotoPrint 4 DX)	IP-540	1	Software RIP (Terminals)
PS RIP (PhotoPrint 4 Server)	IP-541	1	Software RIP (Servers)

Consumables

■ Consumables

(Ink)

Name	Item number	Quantity	Remarks
Ink cartridge/Yellow (1000 ml)	IP6-101	1/carton	1000 ml
Ink cartridge/Magenta (1000 ml)	IP6-102	1/carton	1000 ml
Ink cartridge/Cyan (1000 ml)	IP6-103	1/carton	1000 ml
Ink cartridge/Black (1000 ml)	IP6-104	1/carton	1000 ml
Ink cartridge/Light cyan (1000 ml)	IP6-105	1/carton	1000 ml
Ink cartridge/Light magenta (1000 ml)	IP6-106	1/carton	1000 ml
Waste ink bottle	IP6-109	1	

(Cleaning Liquid)

Name	Item number	Quantity	Remarks
Storage kit	IP6-137	1	Maintenance liquid cartridge: 6 Dummy cartridge: 6
Cleaning kit	IP6-117	1	Cleaning liquid cartridge: 6 Dummy cartridge: 6
Maintenance kit	IP6-108	1	*

* Cap cleaning liquid : 100 ml, wipe cleaning liquid : 100 ml, cleaning swab : 50pieces, Syringe : 10 pieces.

Celsius and Fahrenheit Conversion List

°C	F	°C	F	°C	F	°C	F
0	32	26	78.8	51	123.8	76	168.8
1	33.8	27	80.6	52	125.6	77	170.6
2	35.6	28	82.4	53	127.4	78	172.4
3	37.4	29	84.2	54	129.2	79	174.2
4	39.2	30	86	55	131	80	176
5	41	31	87.8	56	132.8	81	177.8
6	42.8	32	89.6	57	134.6	82	179.6
7	44.6	33	91.4	58	136.4	83	181.4
8	46.4	34	93.2	59	138.2	84	183.2
9	48.2	35	95	60	140	85	185
10	50	36	96.8	61	141.8	86	186.8
11	51.8	37	98.6	62	143.6	87	188.6
12	53.6	38	100.4	63	145.4	88	190.4
13	55.4	39	102.2	64	147.2	89	192.2
14	57.2	40	104	65	149	90	194
15	59	41	105.8	66	150.8	91	195.8
16	60.8	42	107.6	67	152.6	92	197.6
17	62.6	43	109.4	68	154.4	93	199.4
18	64.4	44	111.2	69	156.2	94	201.2
19	66.2	45	113	70	158	95	203
20	68	46	114.8	71	159.8	96	204.8
21	69.8	47	116.6	72	161.6	97	206.6
22	71.6	48	118.4	73	163.4	98	208.4
23	73.4	49	120.2	74	165.2	99	210.2
24	75.2	50	122	75	167	100	212
25	77						